

FIG.2
Application Format

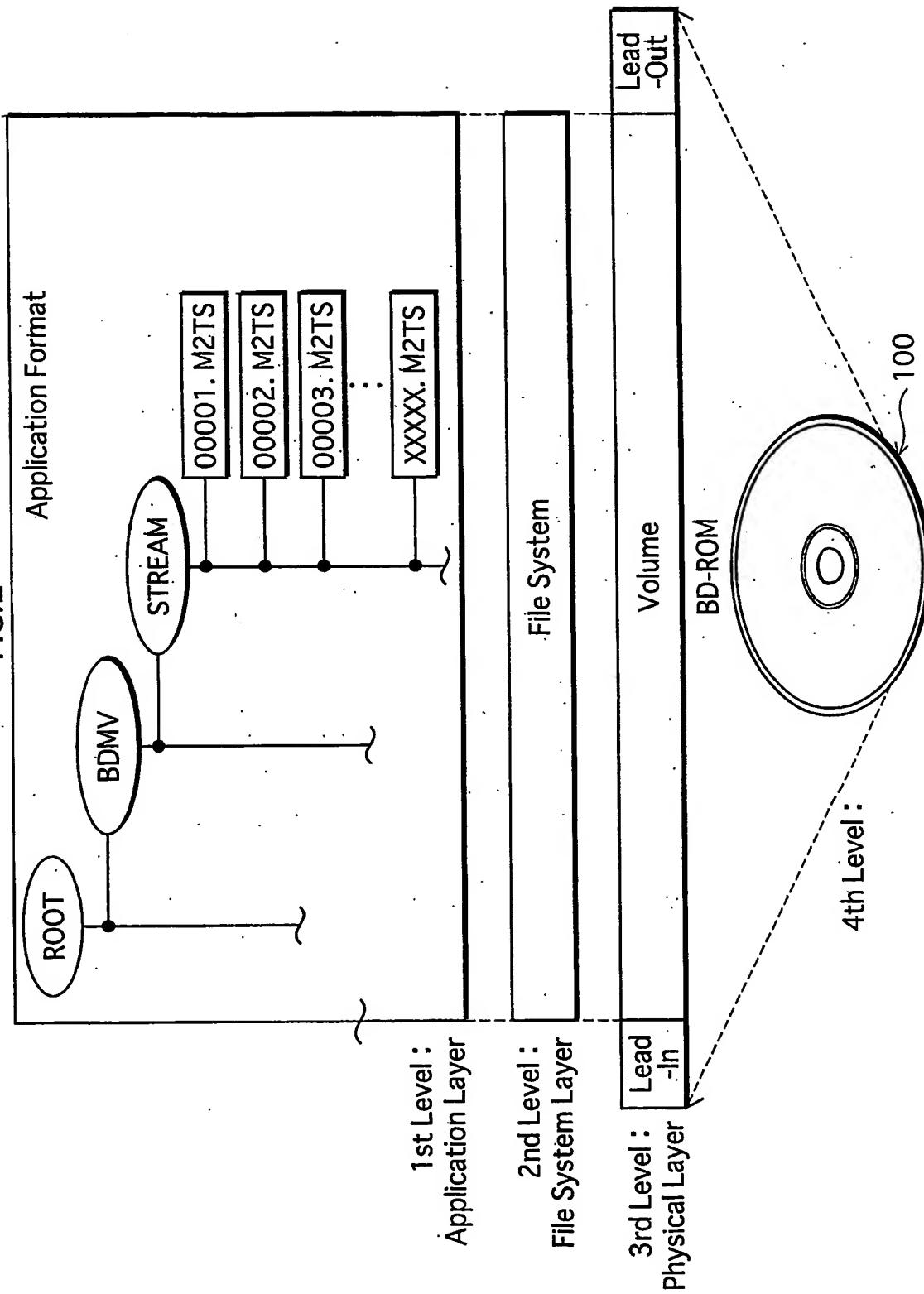


FIG.3

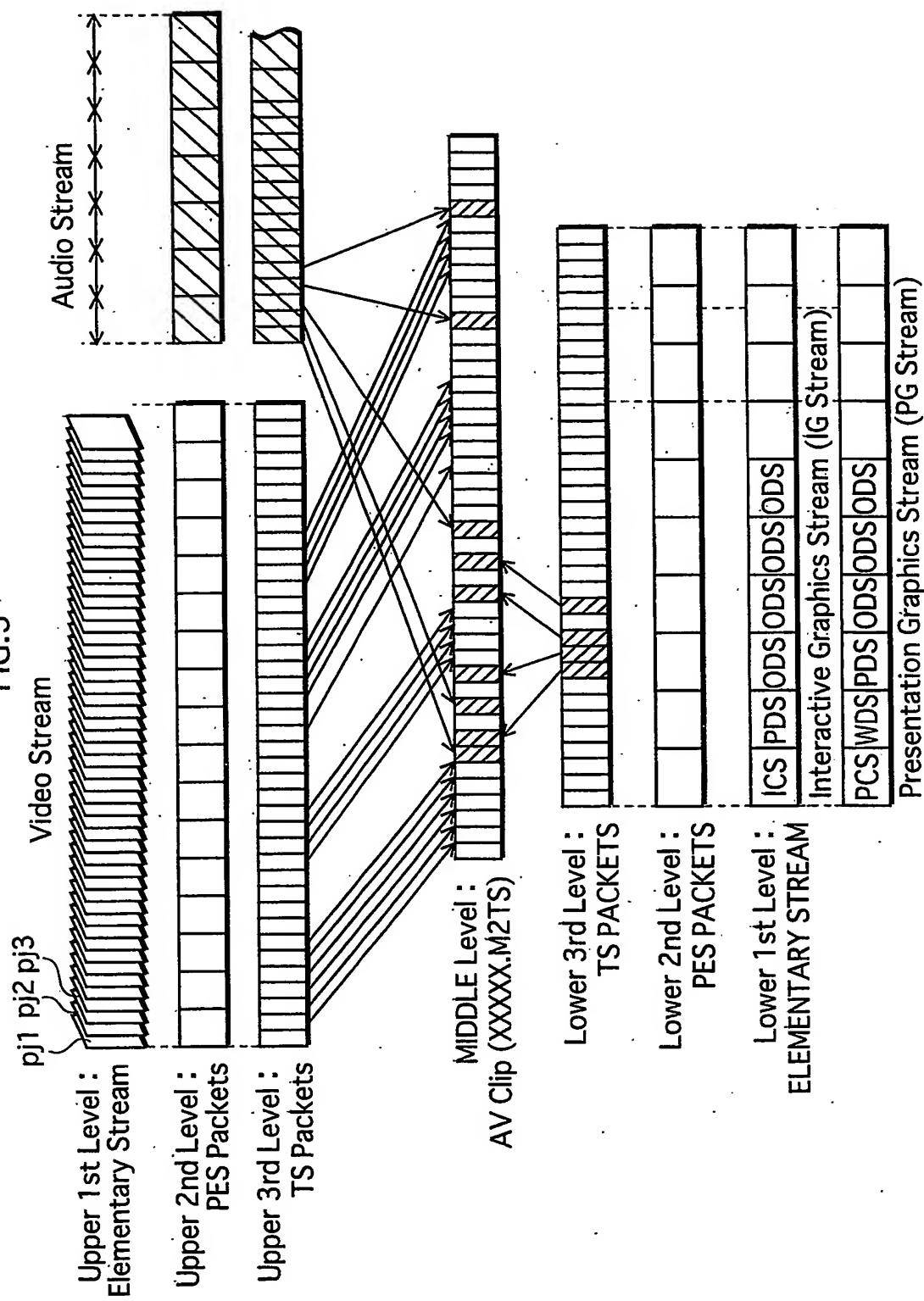
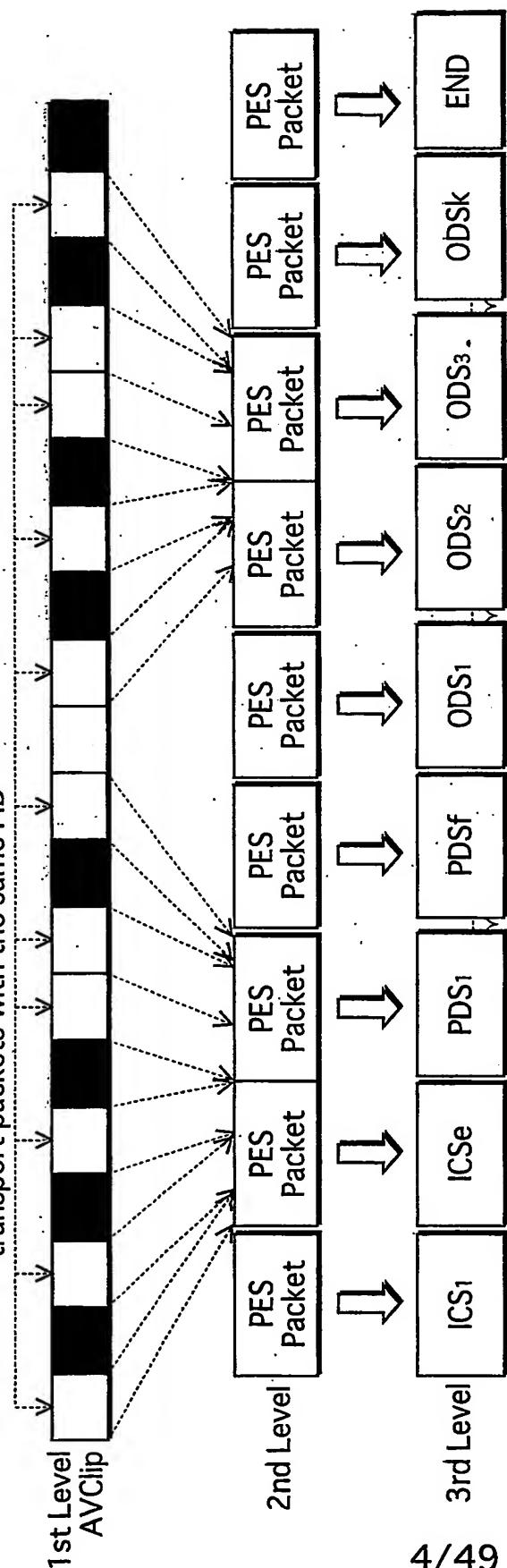


FIG.4A



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FIG.4B

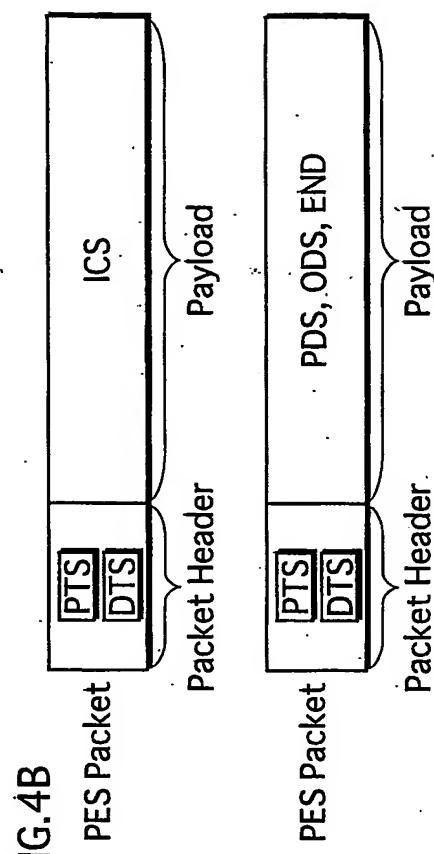
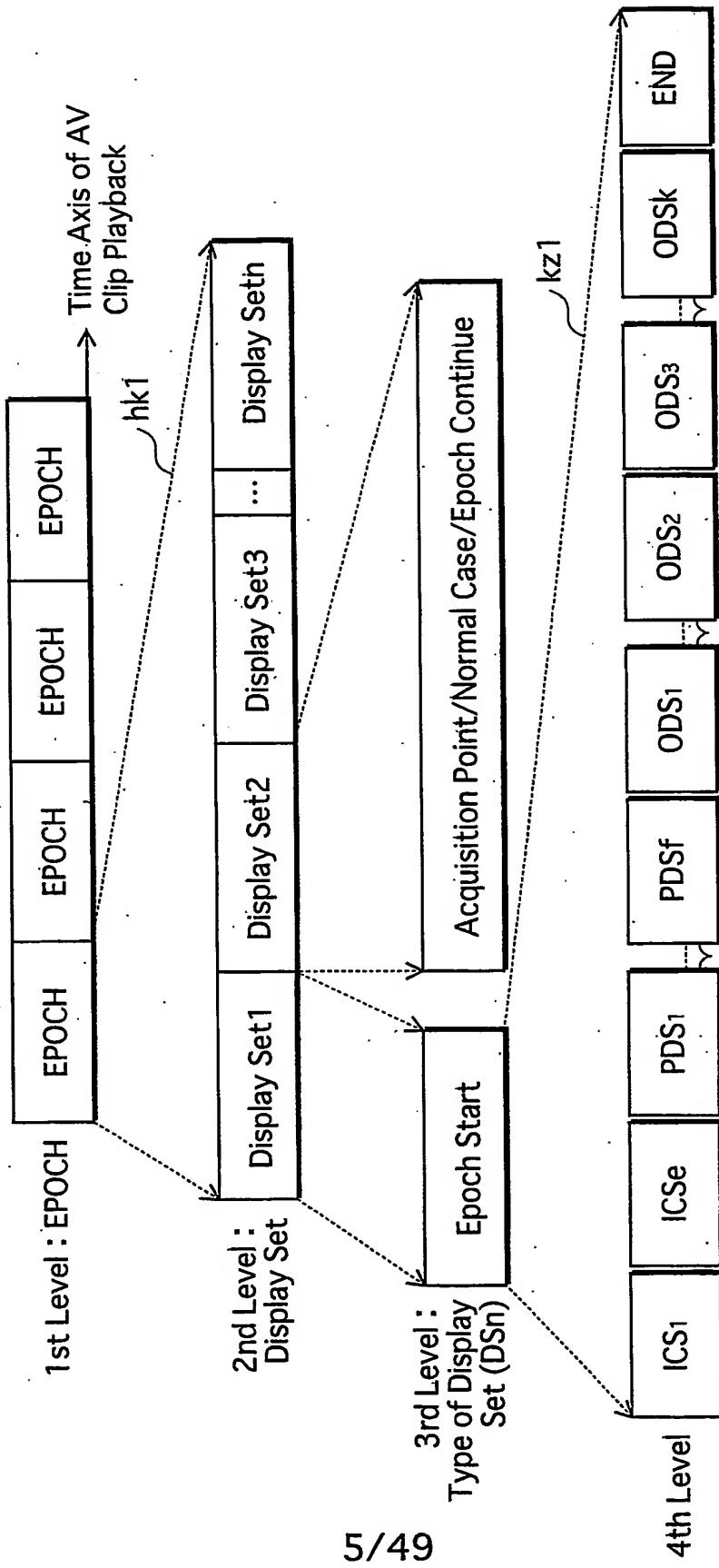


FIG.5



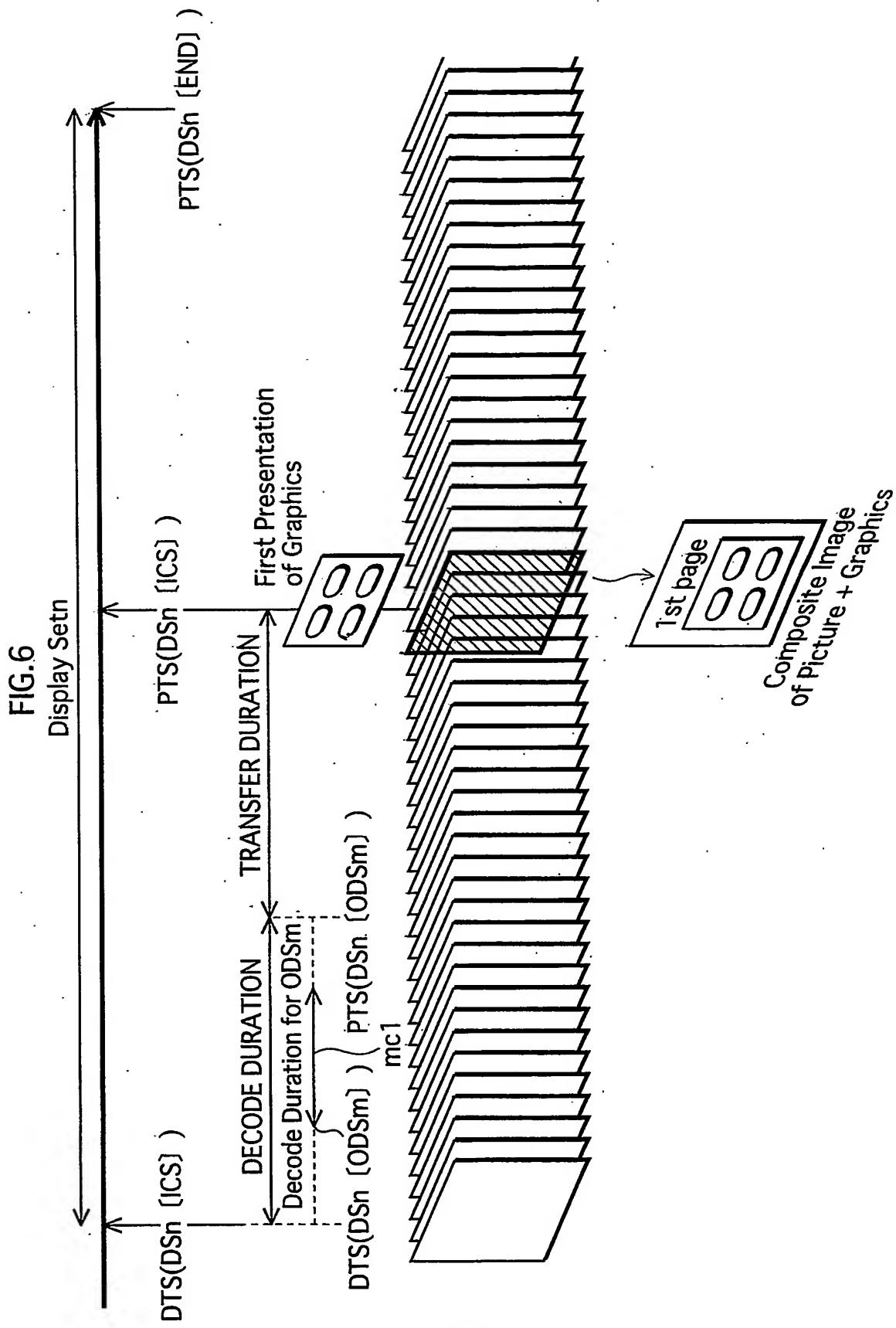


FIG.7A One-to-One Correspondence

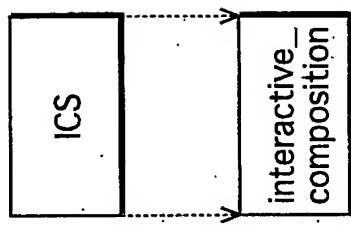


FIG.7B

One-to-Multiple Correspondence

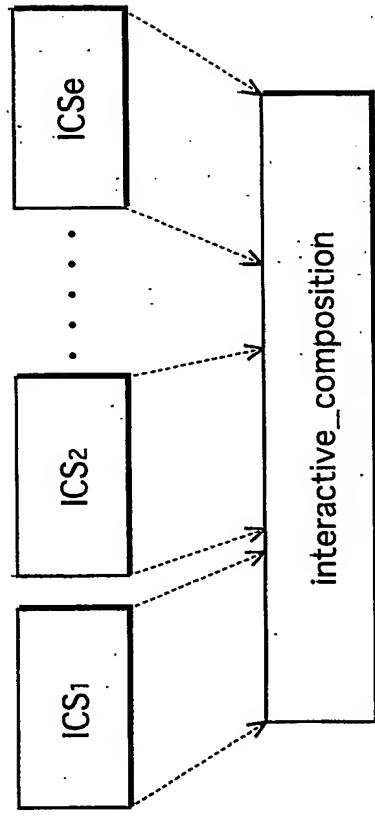


FIG.8

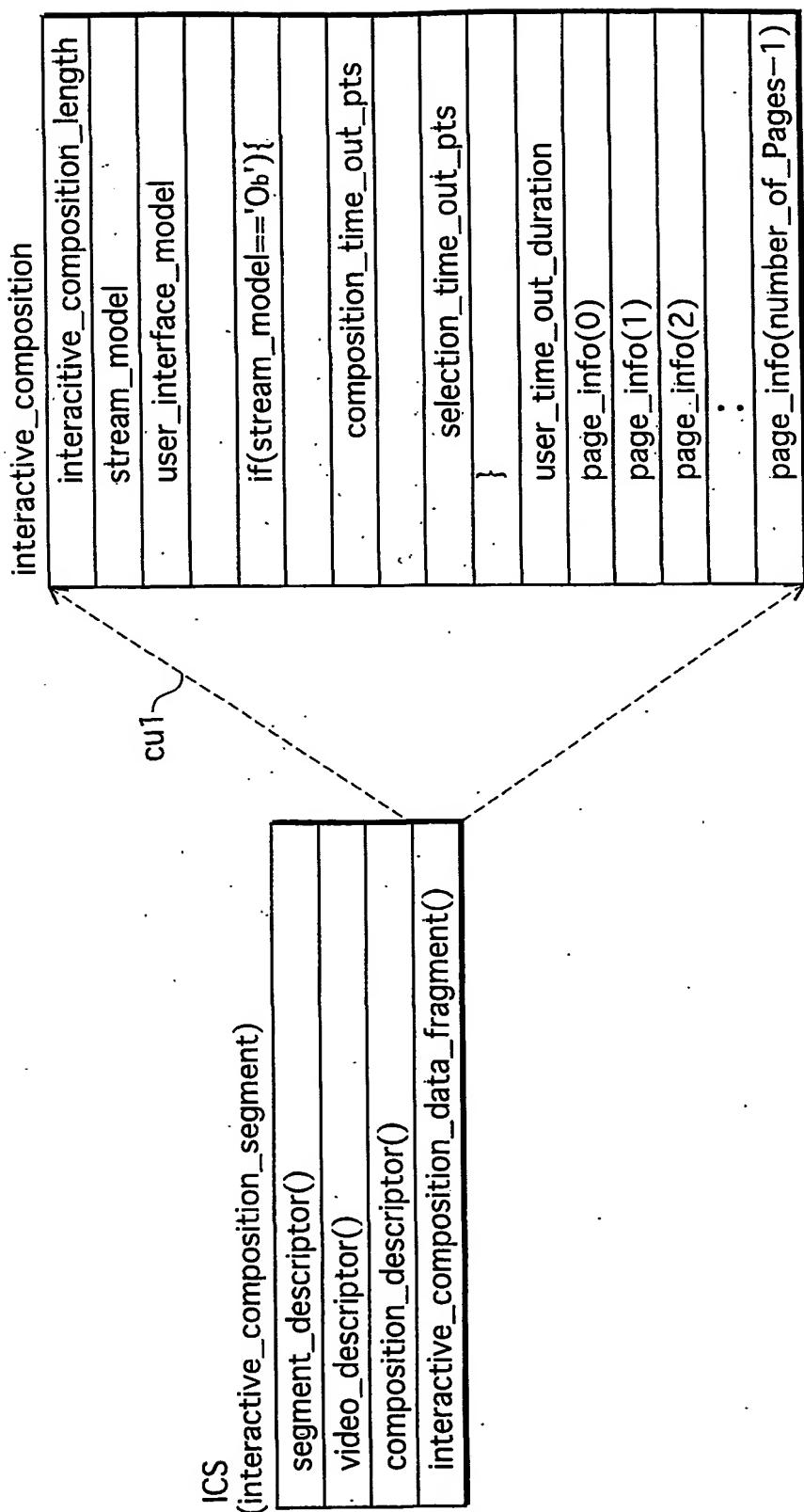


FIG. 9

ICS.Stream_model=0(Playback of Multiplexed ICS)

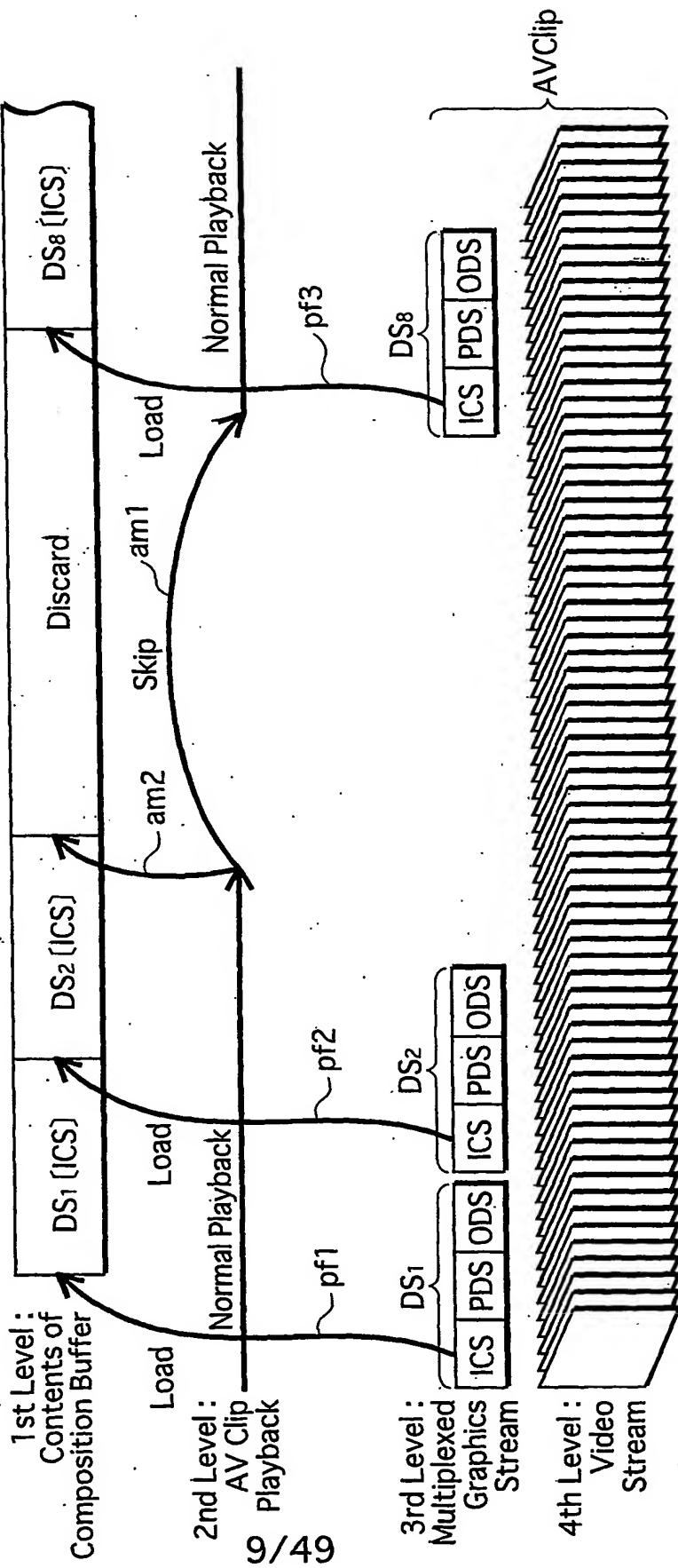


FIG.10

ICS.Stream_Model=1 (Playback of Preloaded ICS)

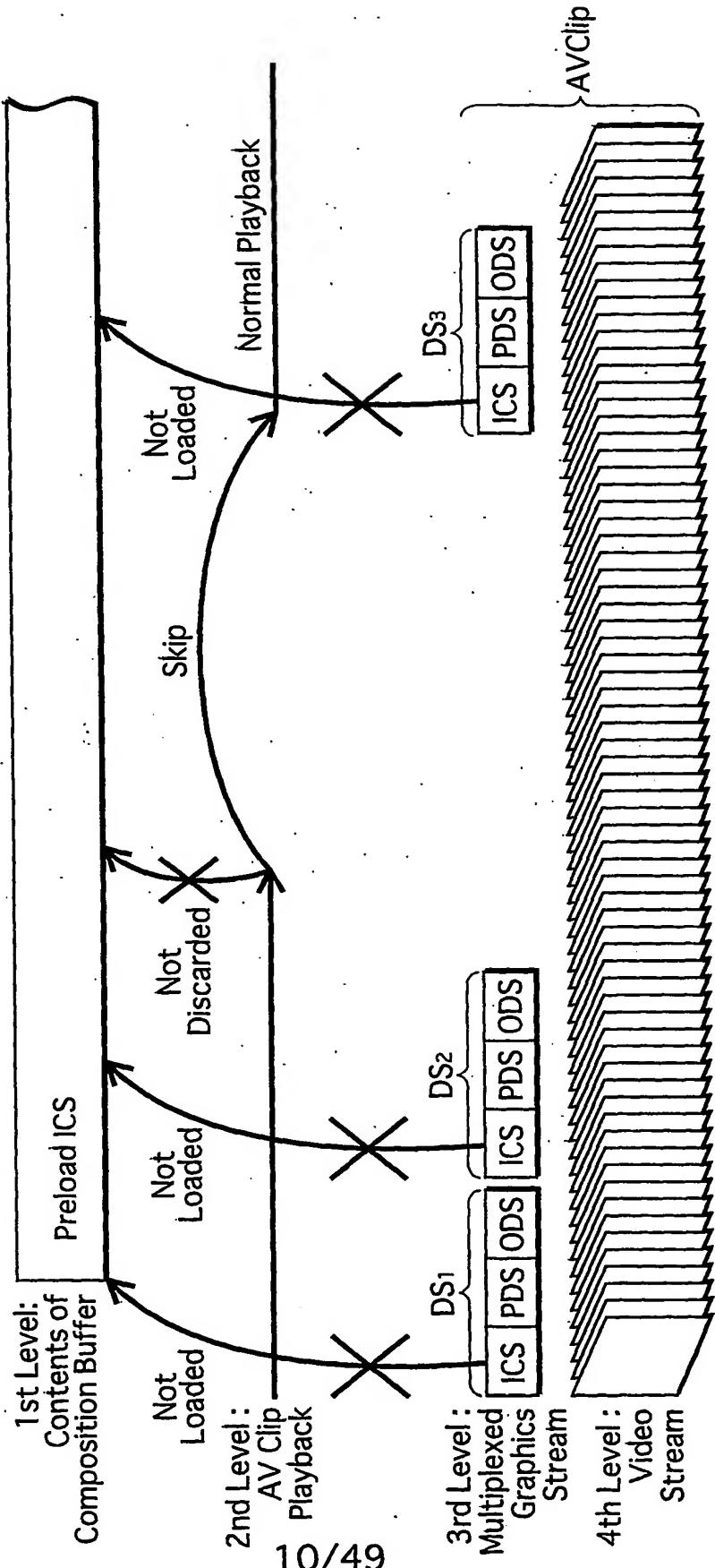


FIG.11

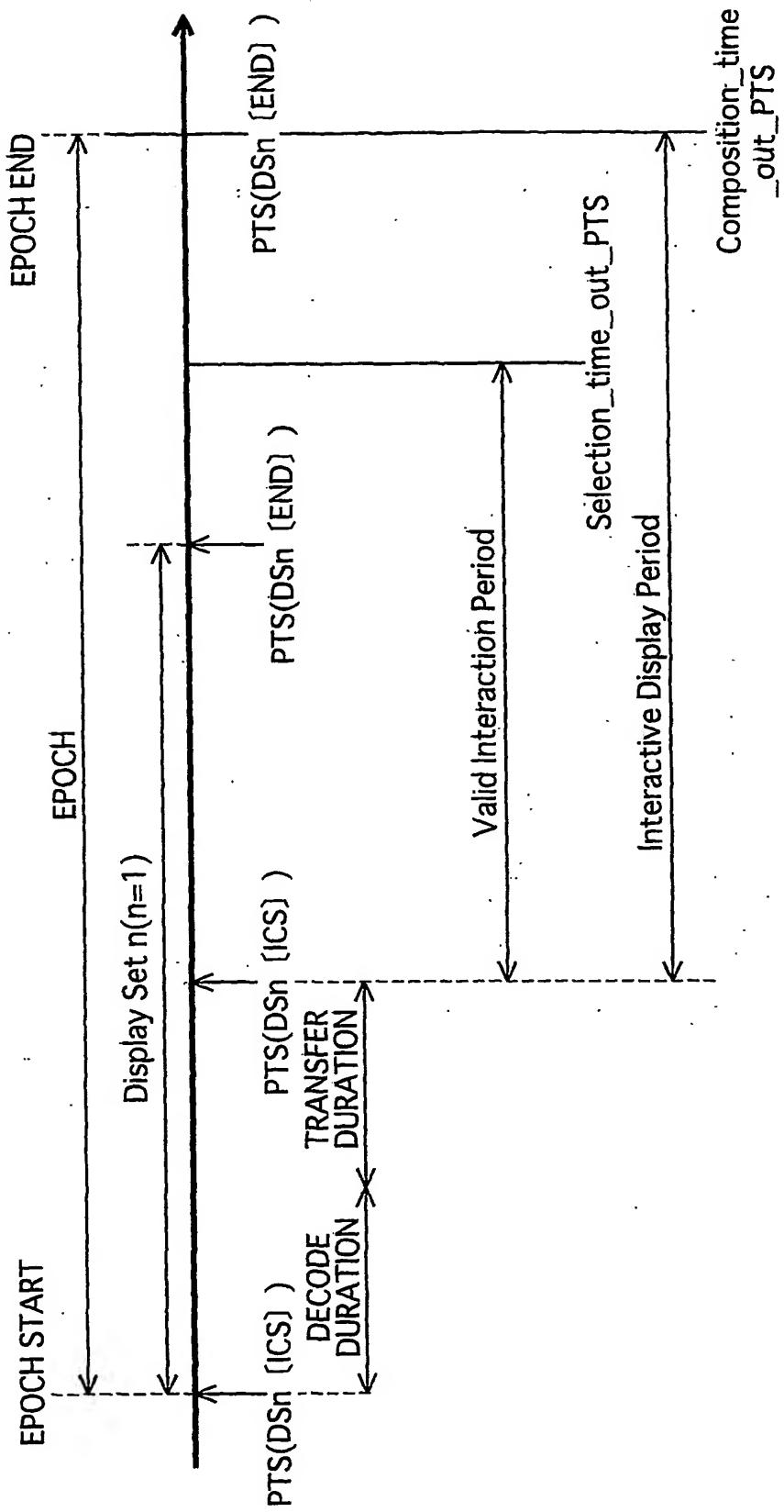


FIG. 12A

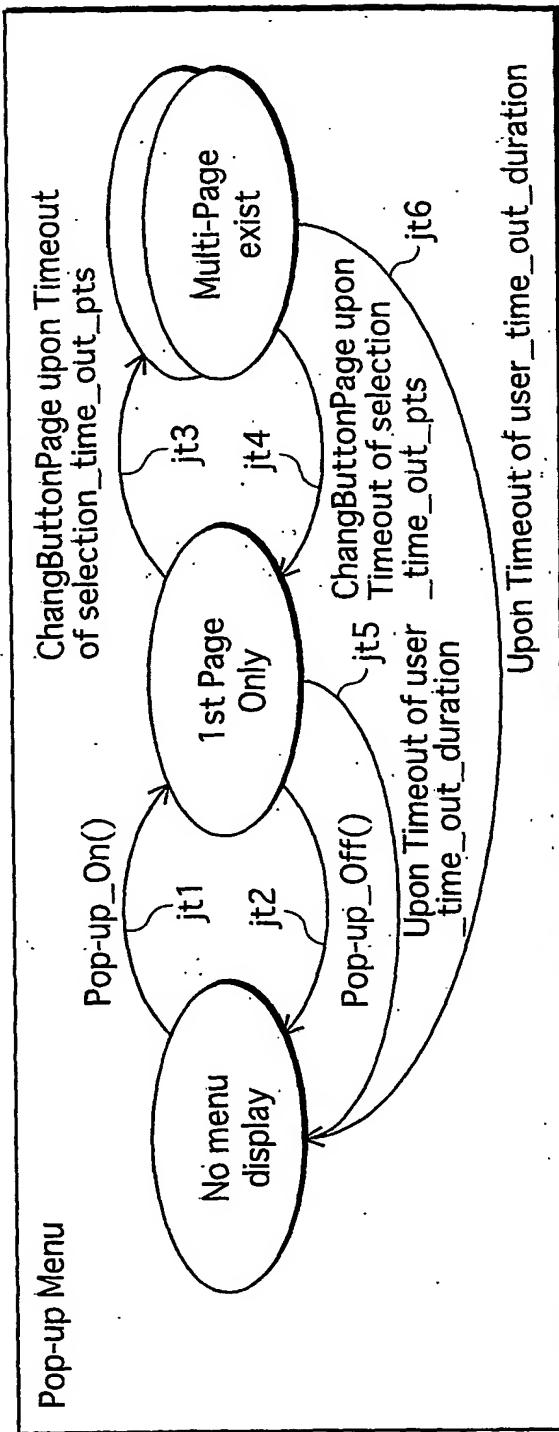


FIG. 12B

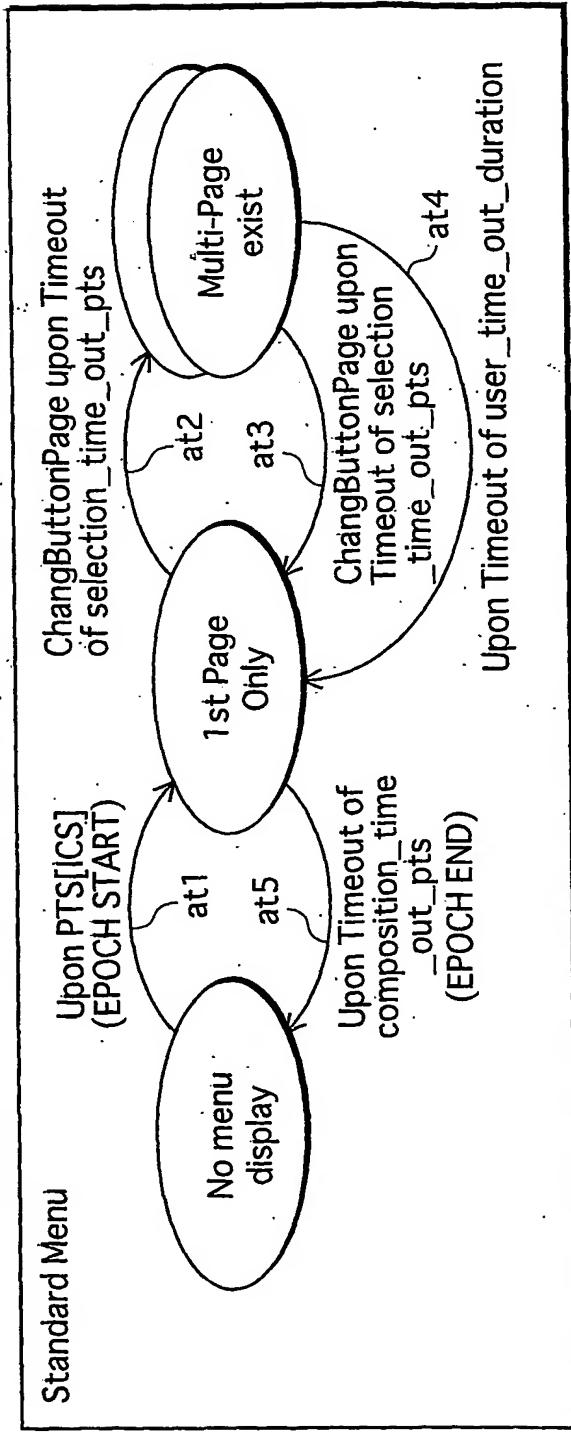


FIG.13

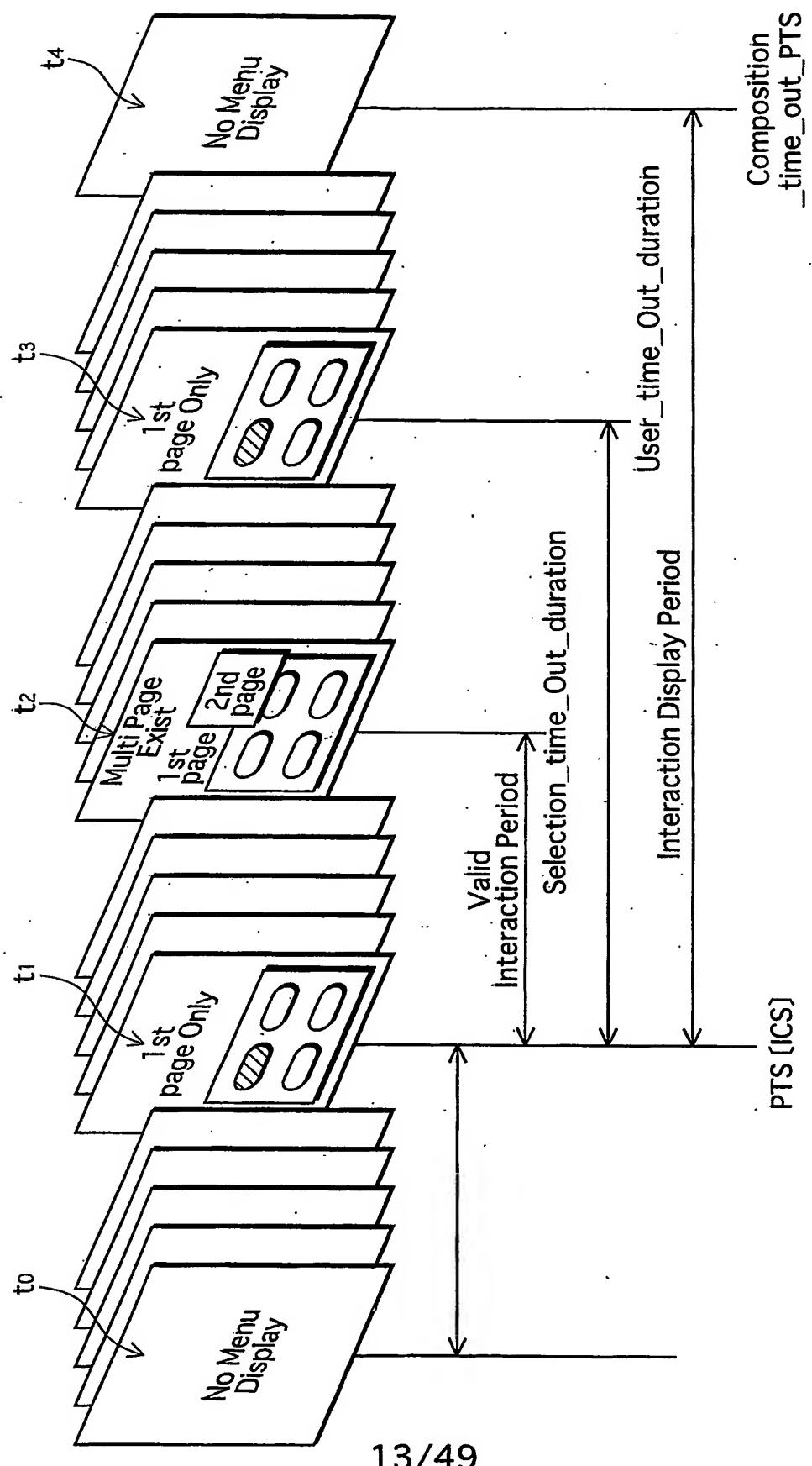


FIG. 14B

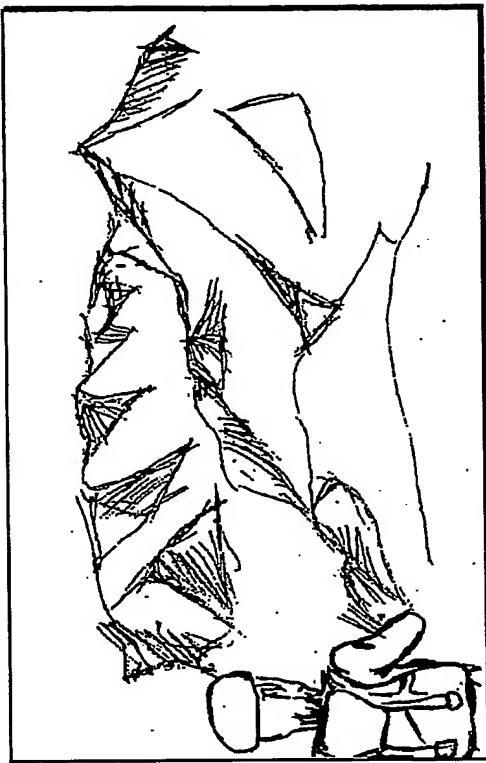


FIG. 14A

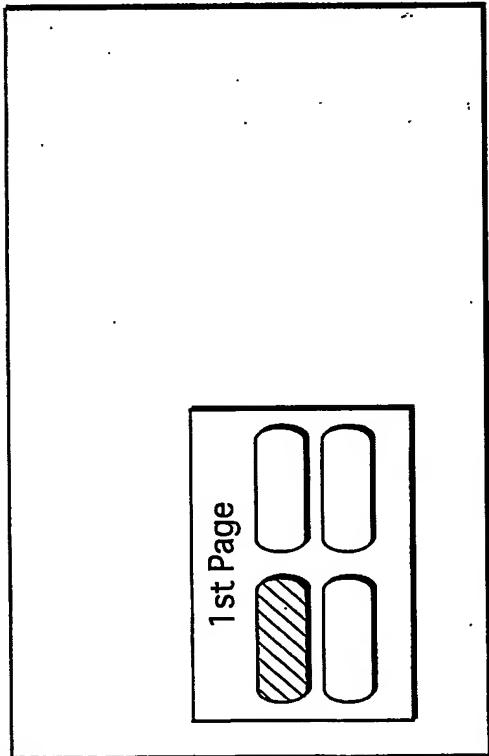


FIG. 14C

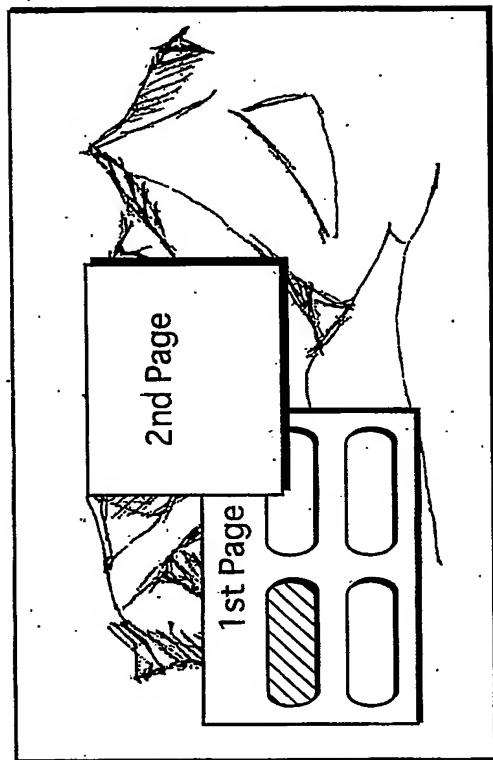
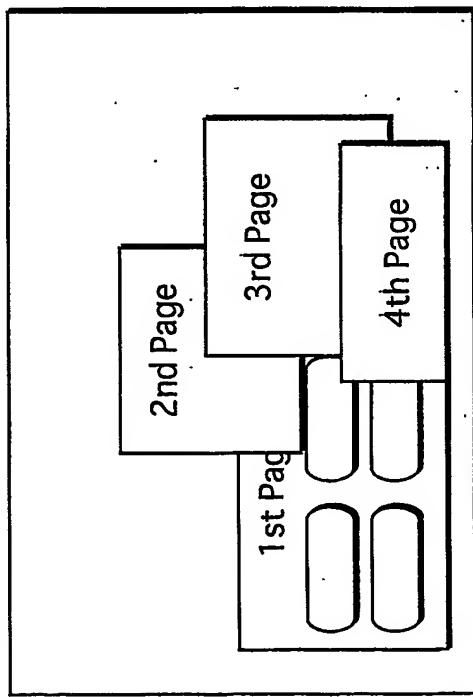
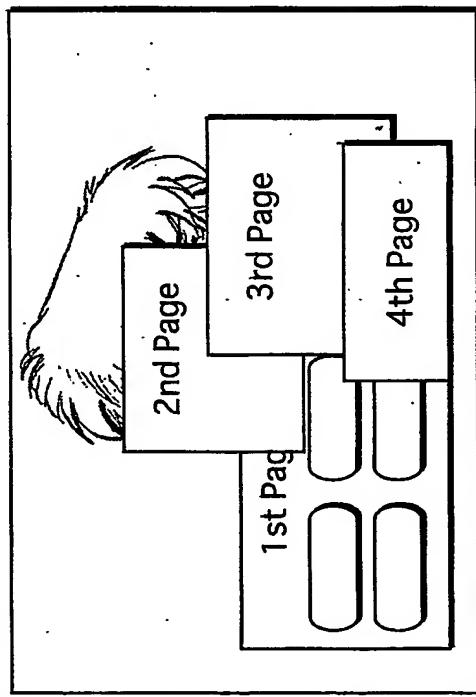


FIG. 15A



Multi-Page Exist

FIG. 15C



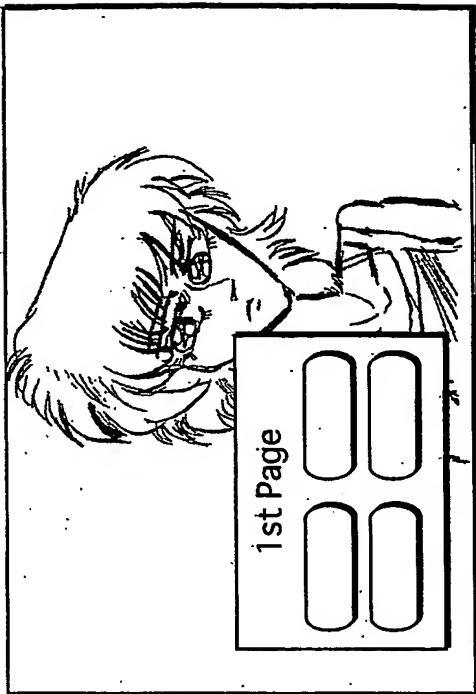
Picture is Covered by Menu Pages

Next Picture

FIG. 15D



Next Picture

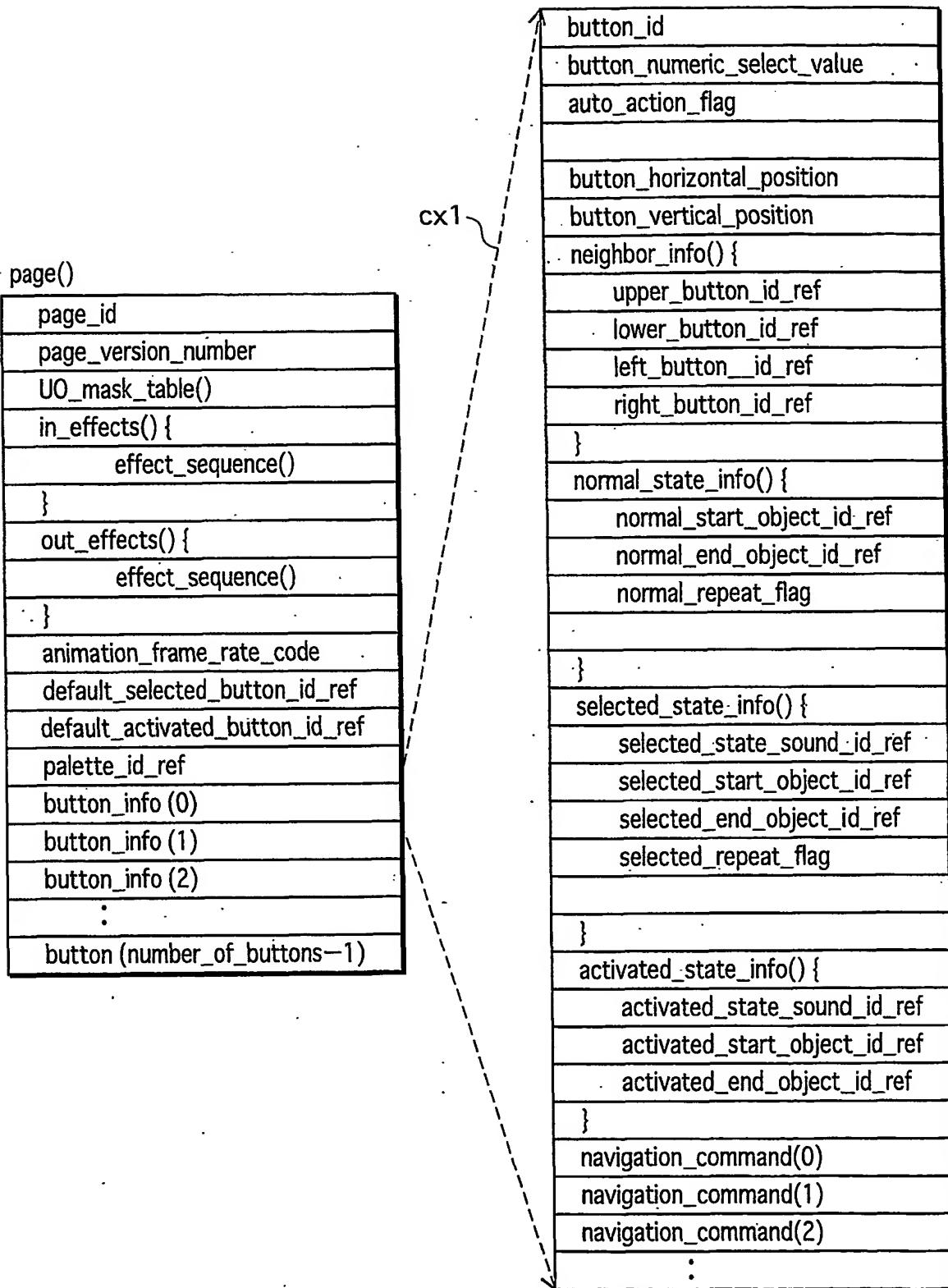


Set user_time_out_duration_Immediately before Presentation of Picture

Next Picture

FIG. 15B

FIG.16



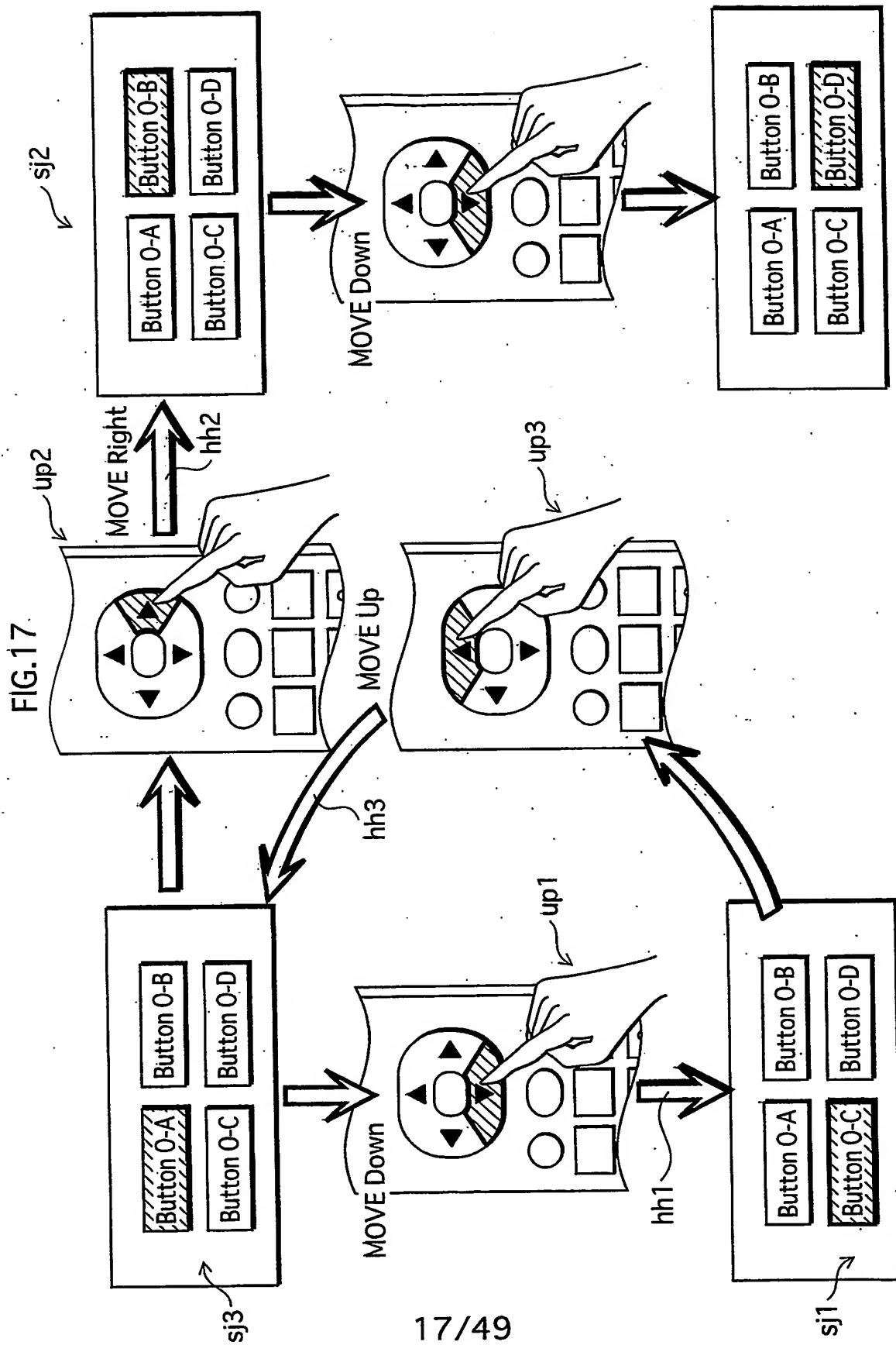


FIG.18

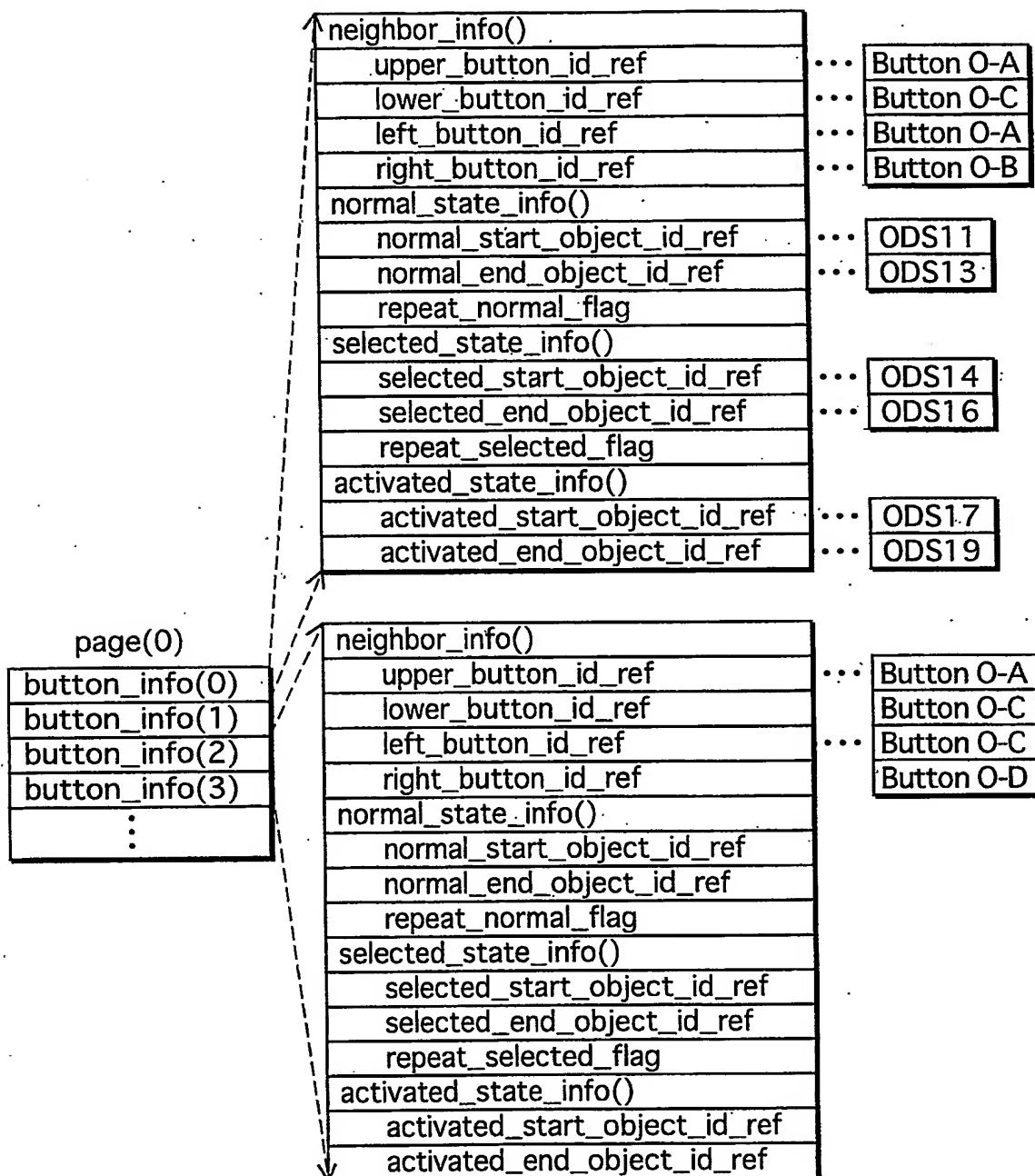


FIG.19

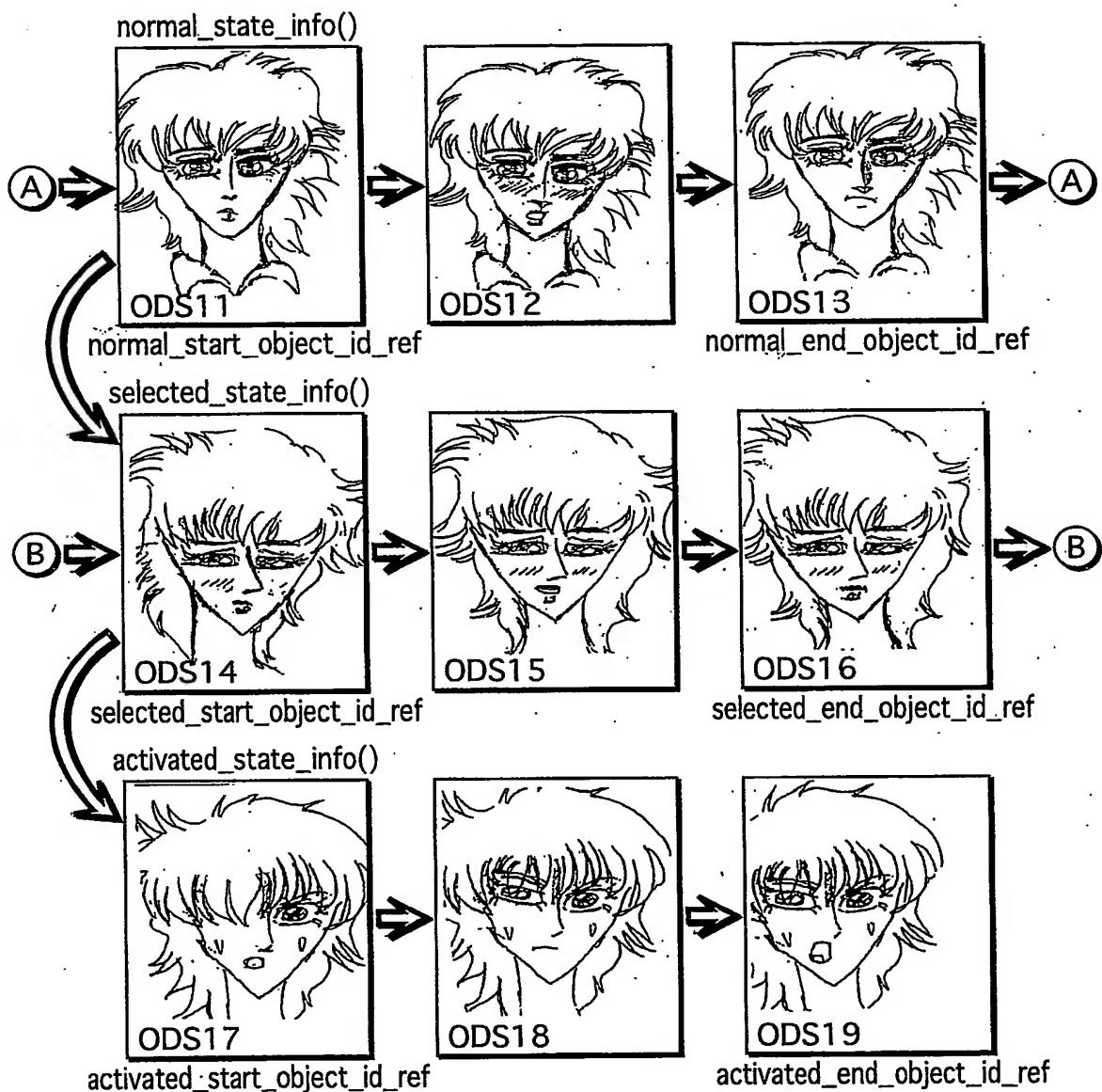


FIG.20

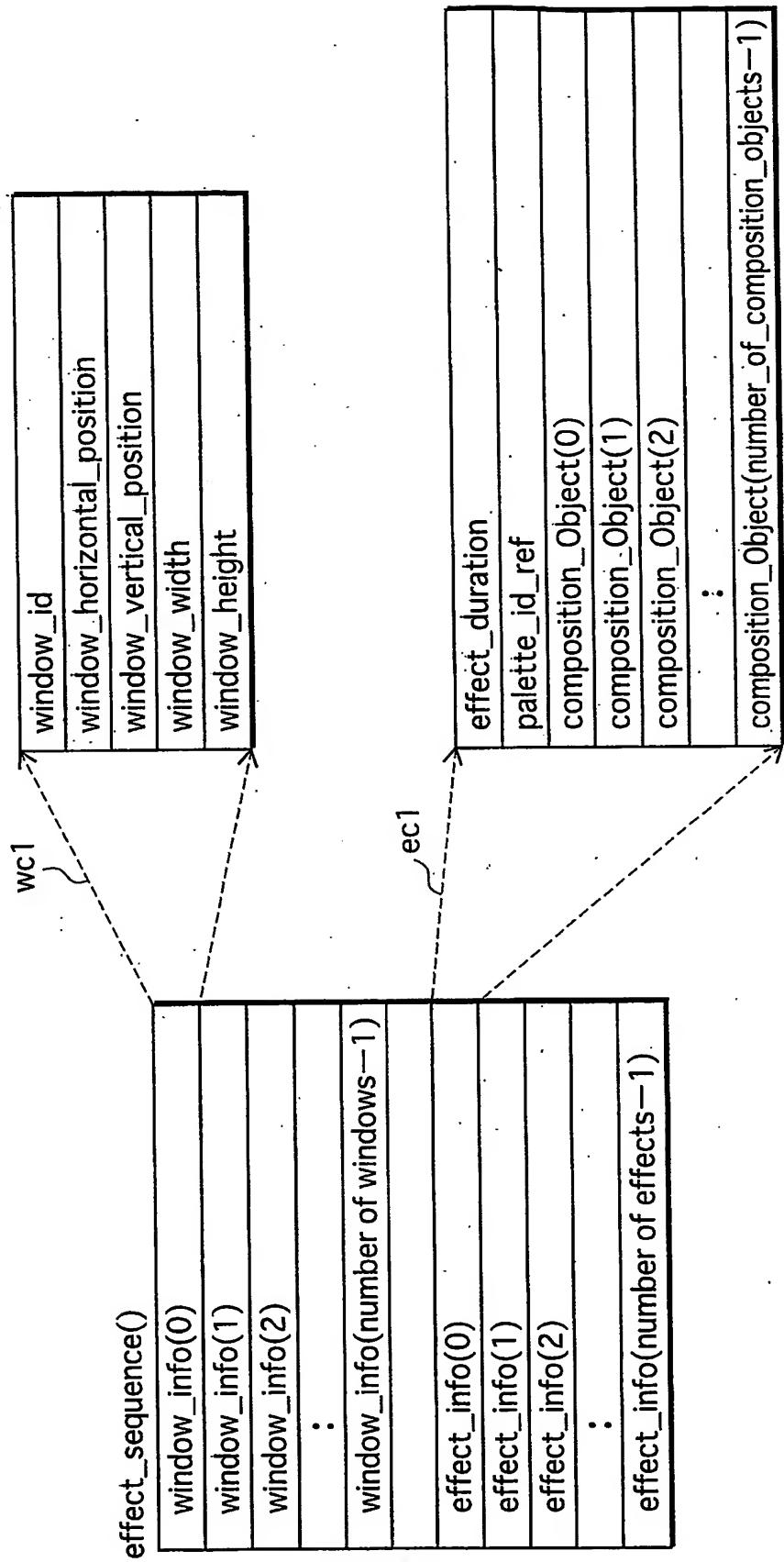


FIG.21A
jth Display Composition in effect
sequence (Display Composition
Defined by effect(j))

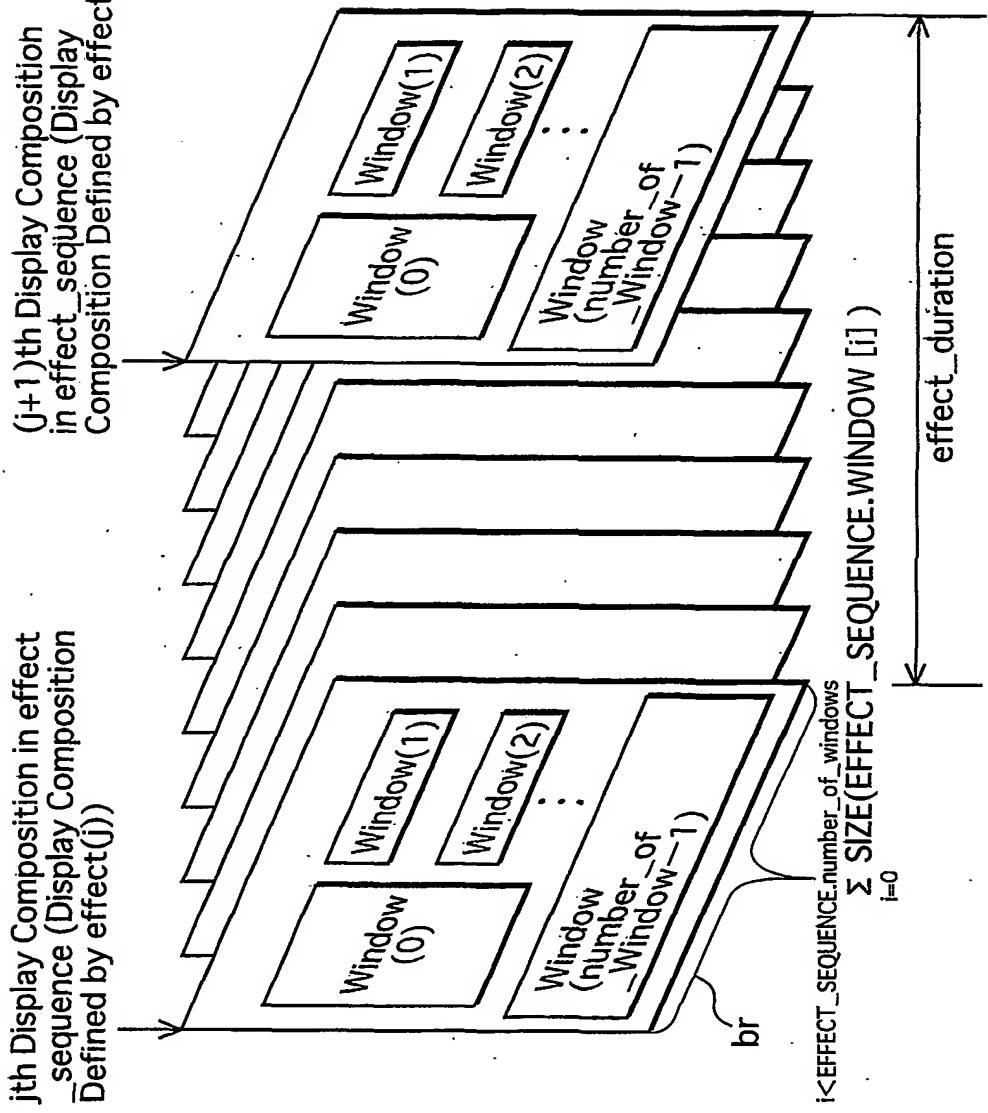


FIG.21B

$$\text{effect_duration} \geq \text{ceil} \left(\left(90000 * \sum_{i=0}^{i<EFFECT_SEQUENCE.number_of_windows} \text{SIZE}(EFFECT_SEQUENCE.WINDOW [i]) \right) / (128 * 10^6) \right)$$

FIG.22

In_Effect

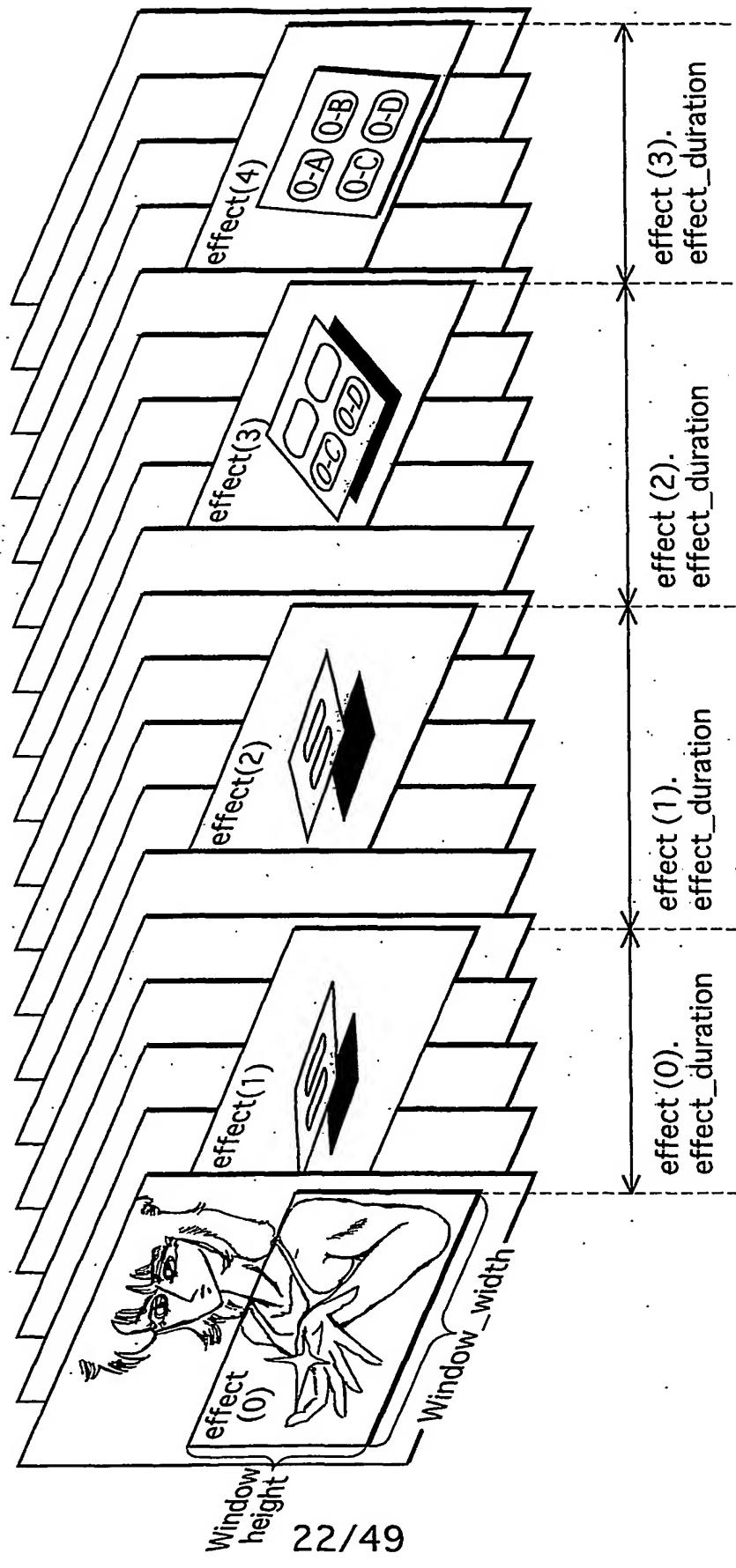


FIG.23

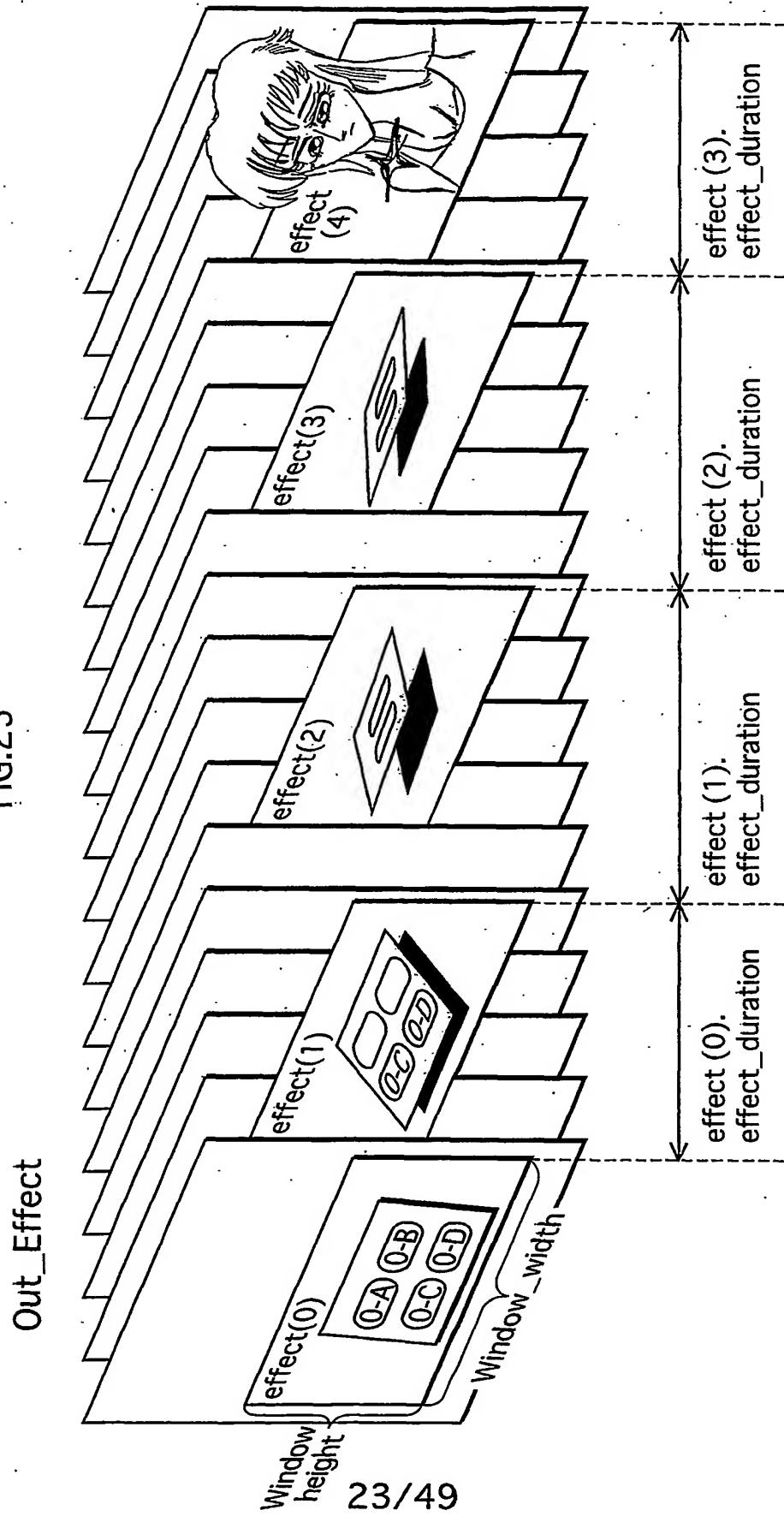


FIG.24

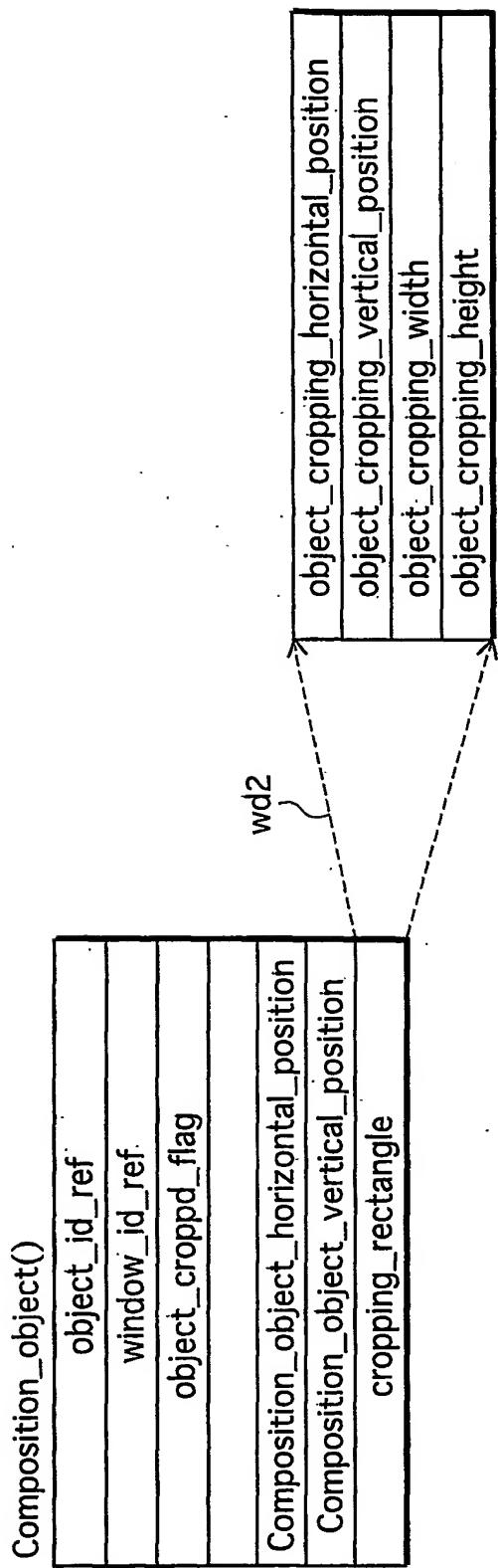


FIG.25
In_Effect

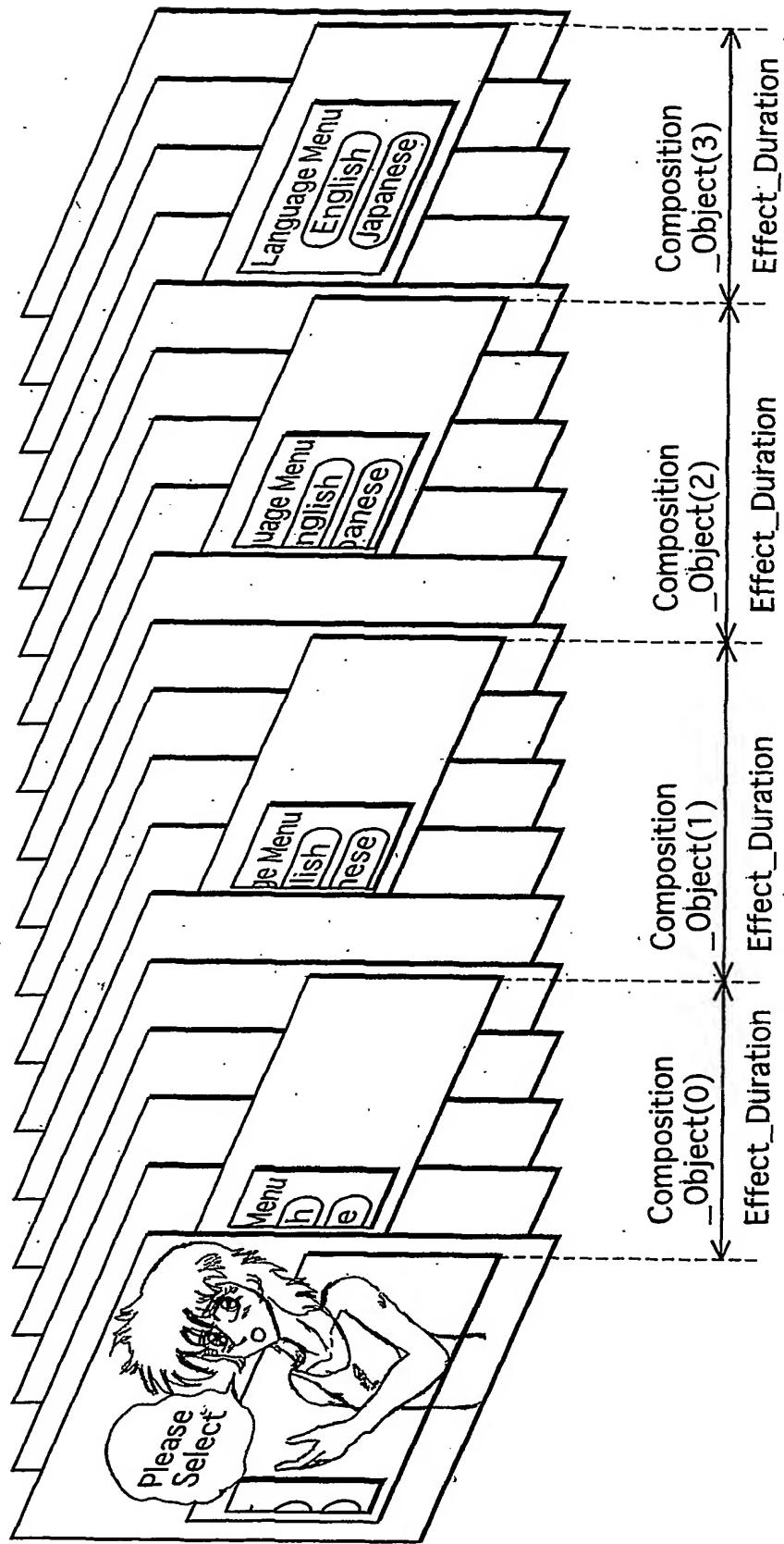


FIG.26

Composition_Object(0) Setting

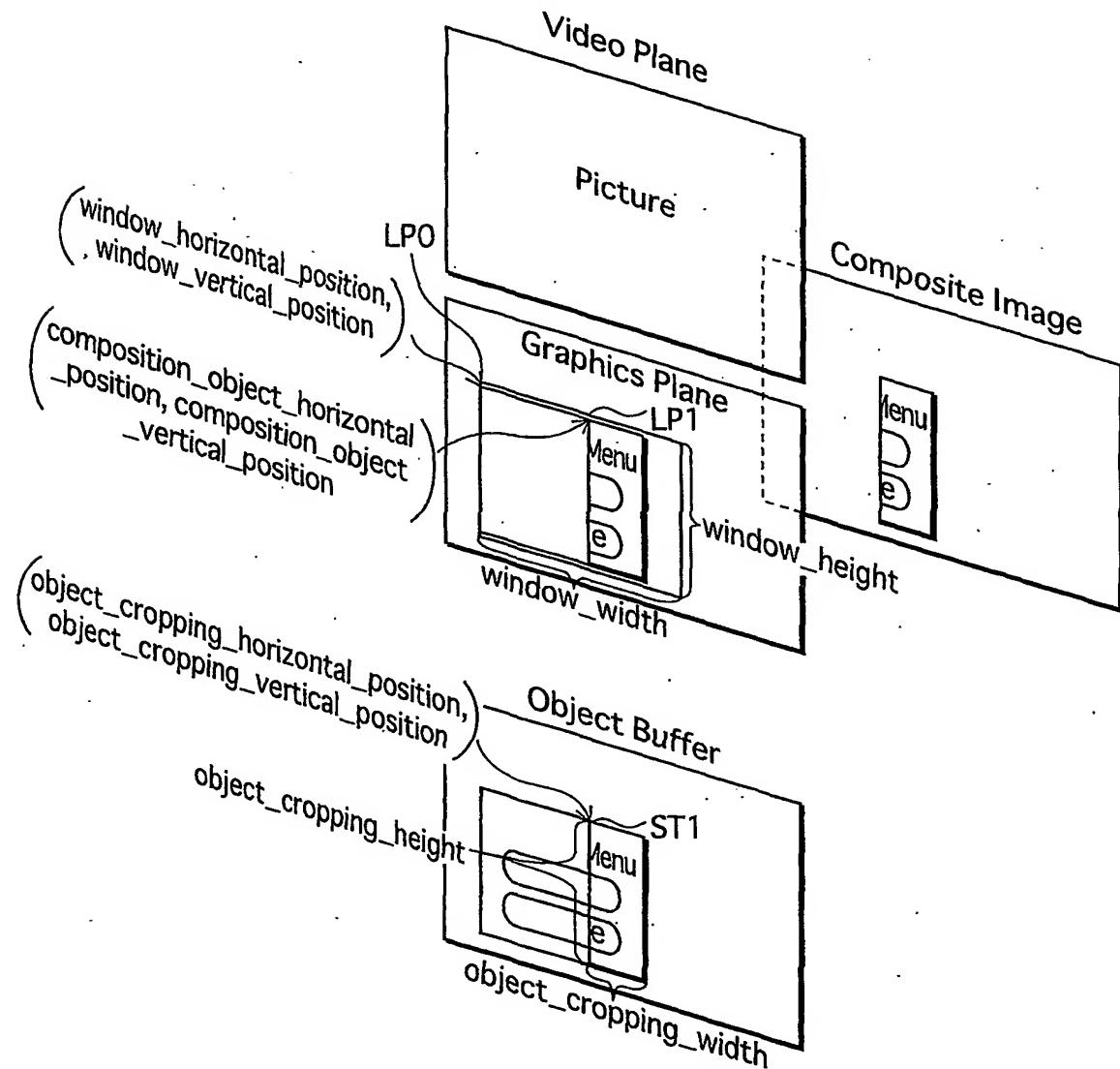


FIG.27

Composition_Object(1) Setting

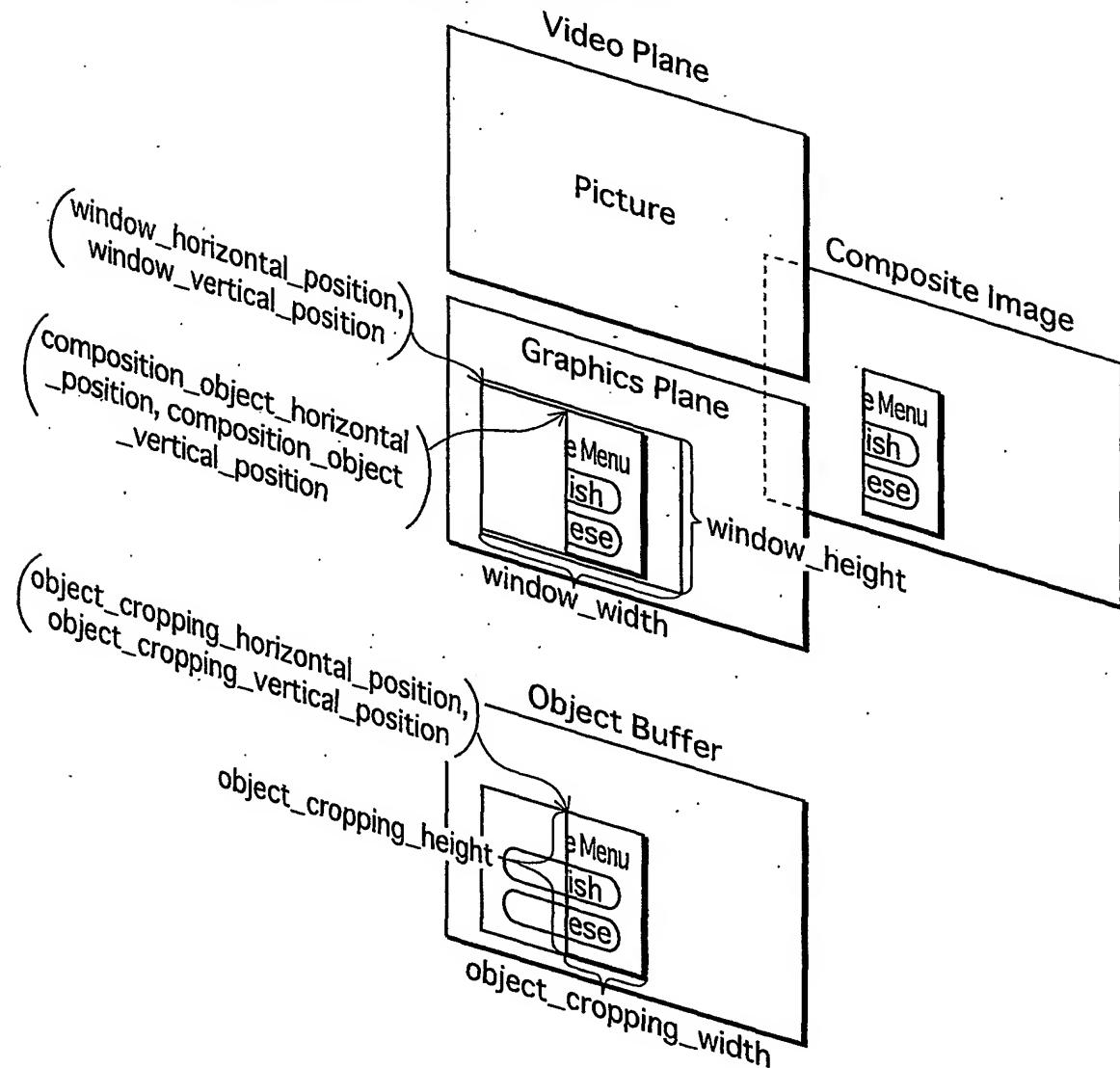


FIG.28

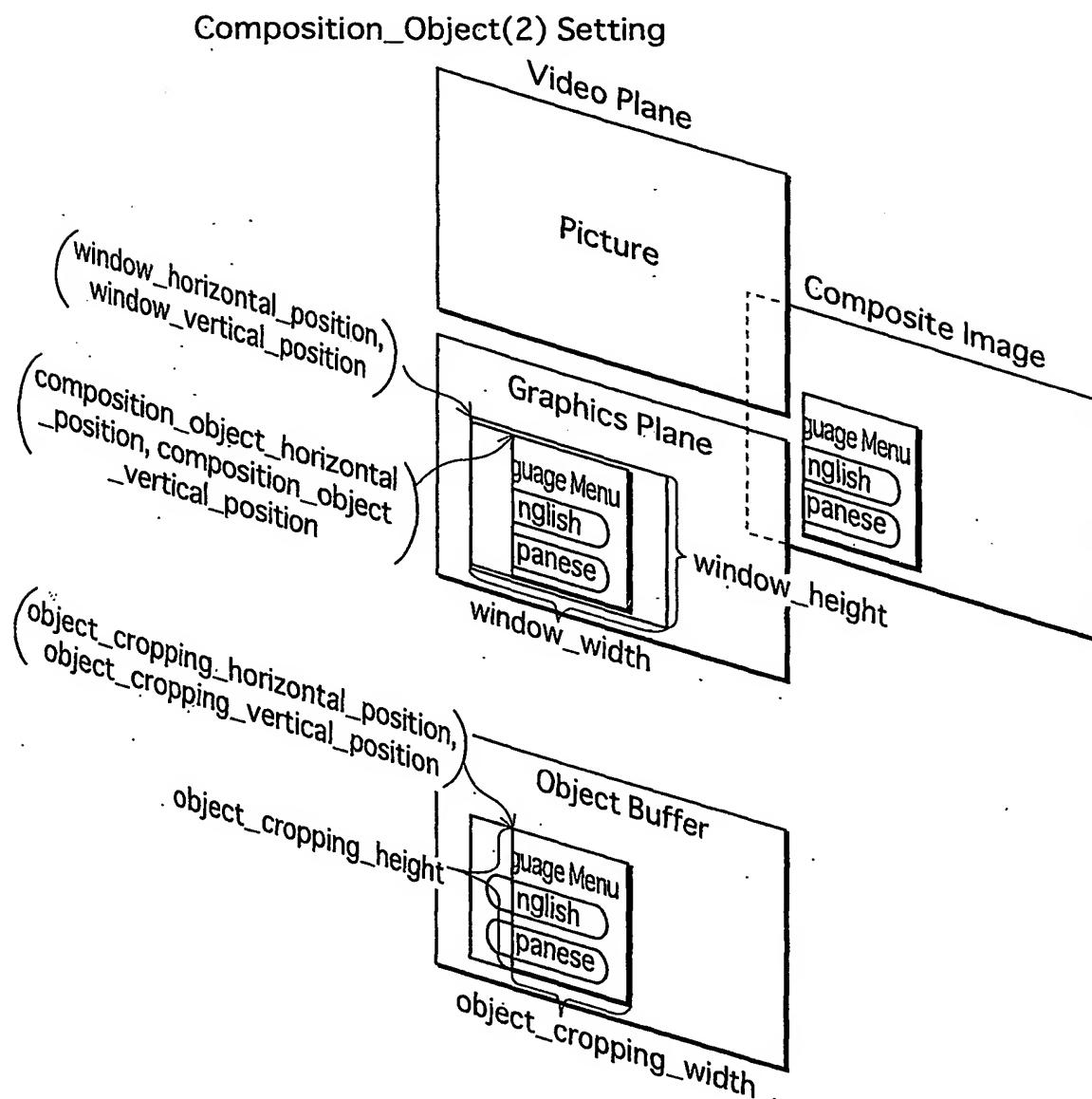


FIG.29

Composition_Object(3) Setting

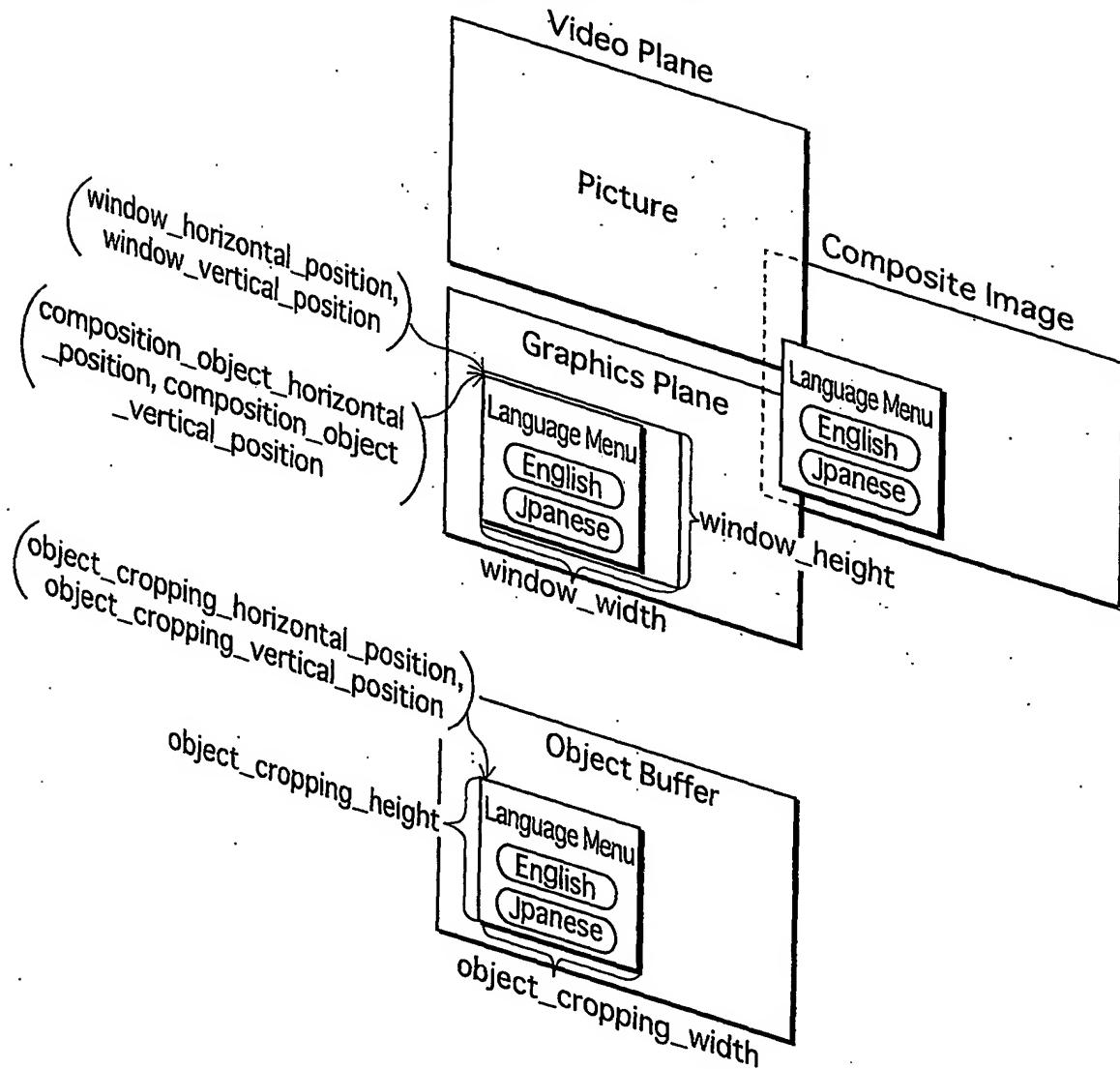


FIG.30

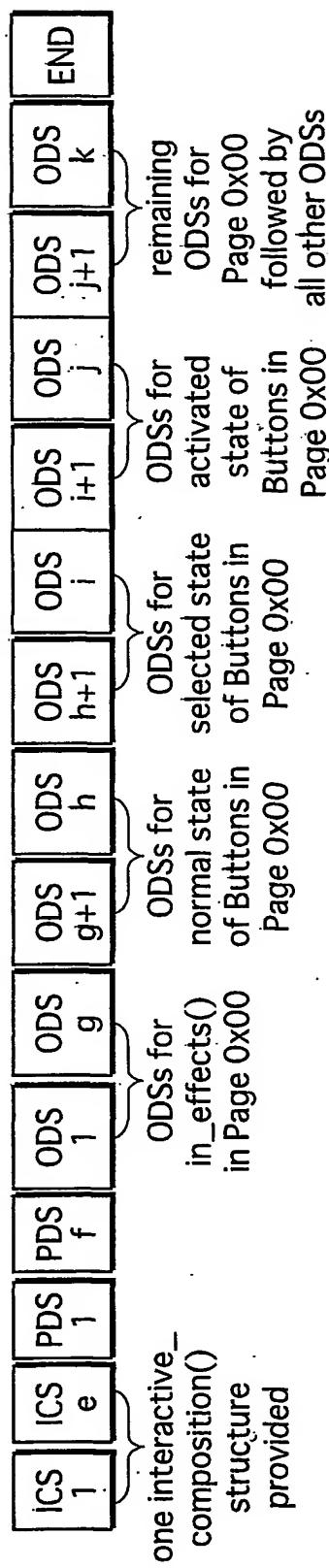


FIG. 31

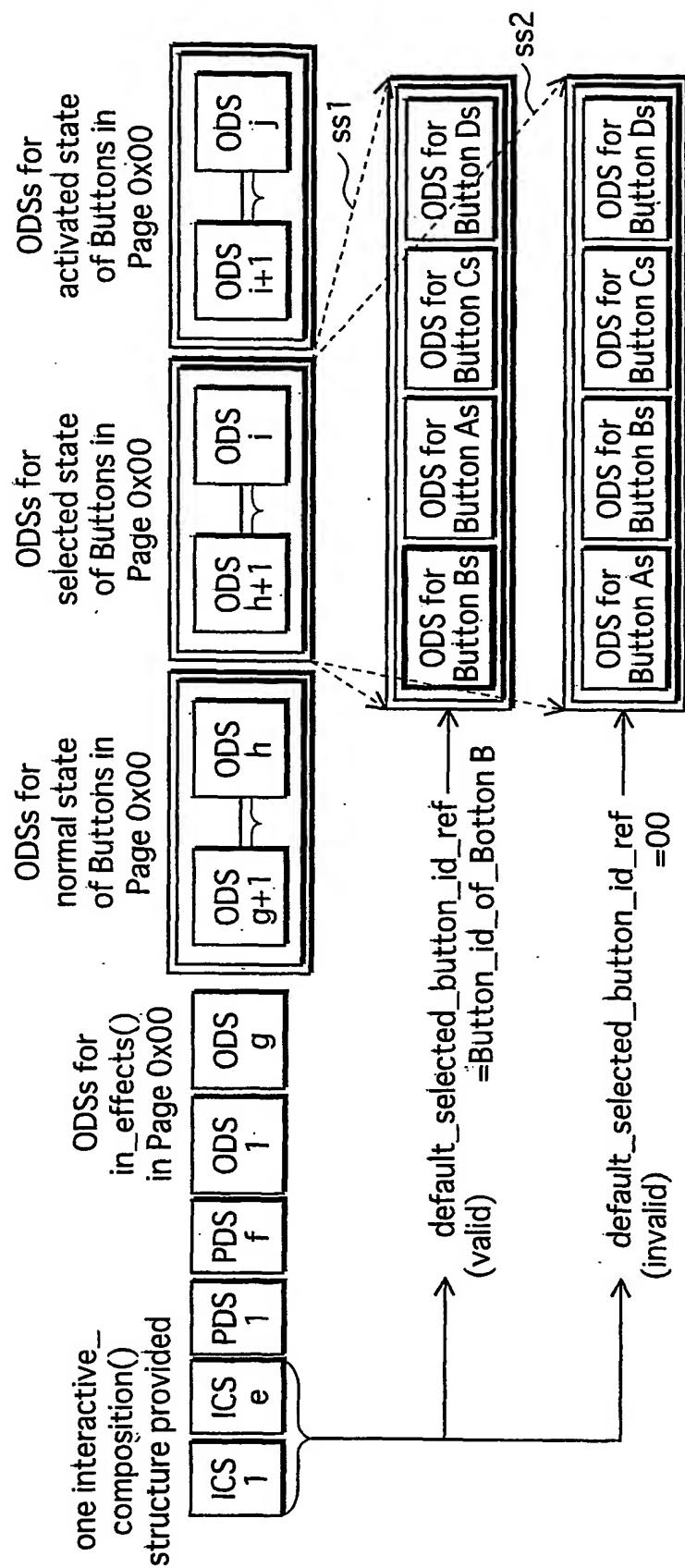


FIG.32A

page (0).Default_Selected_Button_id_ref=Valid
LASTODS PTS=PTS(DS_n[ODSh+1])

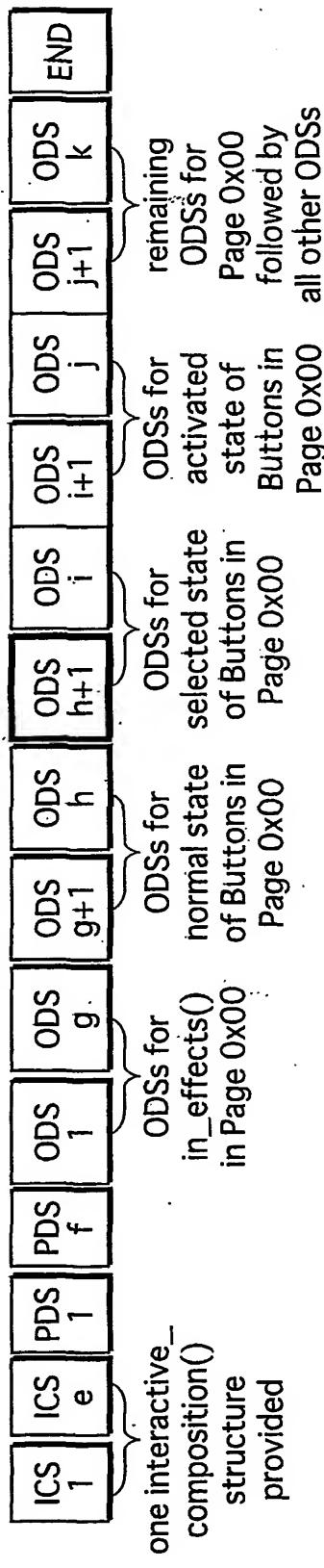


FIG.32B

page (0).Default_Selected_Button_id_ref=invalid
LASTODS PTS=PTS(DS_n[ODSi])

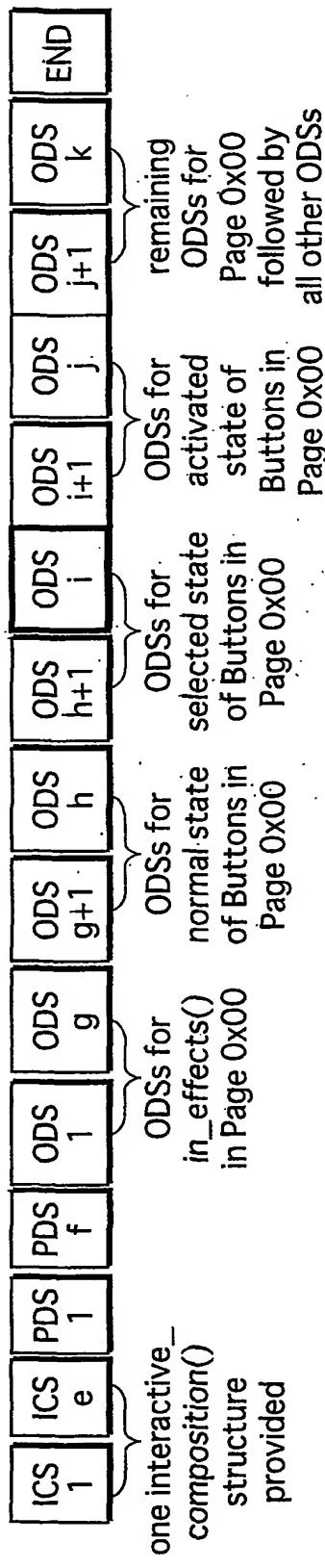


FIG.33A No ODSSs for Selected State within DS_n

LASTODS PTS=PTS(DS_n[ODSh])

FIG.33B No ODSSs for Normal and Selected State within DS_n

LASTODSPTS=PTS(DS_n[ODSg])

FIG.33C No ODSS within DS_n

LASTODS PTS=PTS(DS_n[ICS])

FIG.34A $\text{PTS}(\text{DS}_n[\text{ICS}]) \geq \text{DTS}(\text{DS}_n[\text{ICS}]) + \text{DECODEDURATION}(\text{DS}_n) + \text{TRANSFERDURATION}(\text{DS}_n)$

Where :

- DECODEDURATION (DS_n) is calculated as follows :

```

if( DSn [ICS]. composition_state == EPOCH_START )
    return(max (LASTODSPTS(DSn) - DTS(DSn [ICS]), PLANECLEARTIME(DSn)))
else
    return(LASTODSPTS(DSn) - DTS(DSn [ICS]))

```

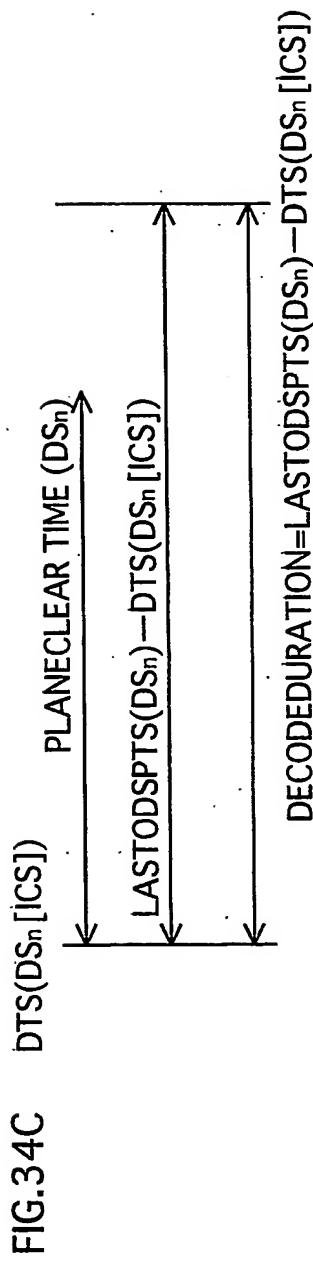
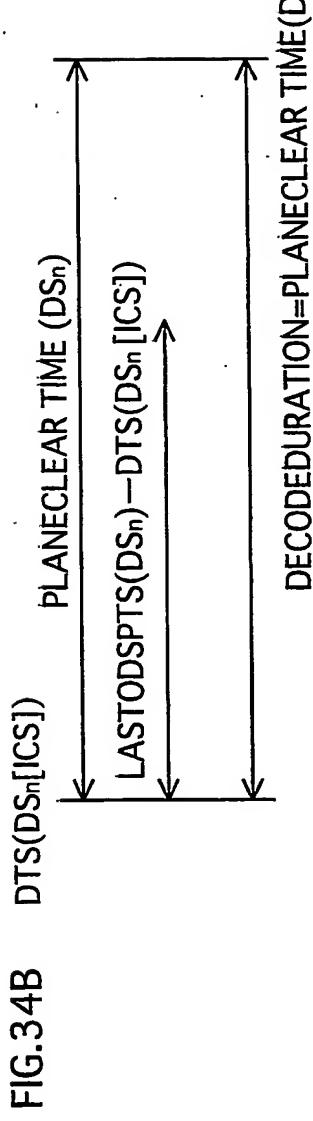


FIG.35A

Where :

$$\text{EFFECTTID}(DS_n) = \text{ceil} \left(\left(90000 * \sum_{i=0}^{i < ICS.PAGE[0].IN_EFFECTS.number_of_windows} \text{SIZE}(DS_n[ICS].PAGE[0].IN_EFFECTS.WINDOW[i]) \right) / (128 * 10^6) \right)$$

FIG.35B

Σ PAGEDFAULTTID(DS_n)= $\text{ceil} \left(\begin{cases} 90000 * \left(\sum_{i=0}^{i < ICS.PAGE[0].number_of_button} \text{NBSIZE}(DS_n, DS_n[ICS].PAGE[0].button) \right) / (128 * 10^6) \\ - \text{NBSIZE}(DS_n, DS_n[ICS].PAGE[0].default_selected_button_id_ref) \\ + \text{SBSIZE}(DS_n, DS_n[ICS].PAGE[0].default_selected_button_id_ref) \end{cases} \right)$

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FIG.35C

Σ PAGENODEFAULTTID(DS_n)= $\text{ceil} \left(\begin{cases} 90000 * \left(\sum_{i=0}^{i < ICS.PAGE[0].number_of_button} \text{NBSIZE}(DS_n, DS_n[ICS].PAGE[0].button) \right) / (128 * 10^6) \\ + \text{BSIZE}(DS_n, LRG\{button : button \in DS_n[ICS].PAGE[0].button\}) \\ - \text{NBSIZE}(DS_n, LRG\{button : button \in DS_n[ICS].PAGE[0].button\}) \end{cases} \right)$

FIG.36

$\text{PTS}(\text{DS}_n[\text{ICS}]) \geq \text{DTS}(\text{DS}_n[\text{ICS}]) + \text{DECODEDURATION}(\text{DS}_n) + \text{TRANSFERDURATION}(\text{DS}_n)$

Where :

- TRANSFERDURATION (DS_n) is calculated as follows :

```
if ( DS_n[ICS].PAGE[0].IN_EFFECTS. number_of_effects != 0 )
    return EFFECTTID(DS_n)
else if(DS_n[ICS].PAGE[0].default_selected_button_id_ref == 0xFFFF )
    return PAGENODEFAULTTID(DS_n)
else
    return PAGEDEFAULTTID(DS_n)
```

FIG.37

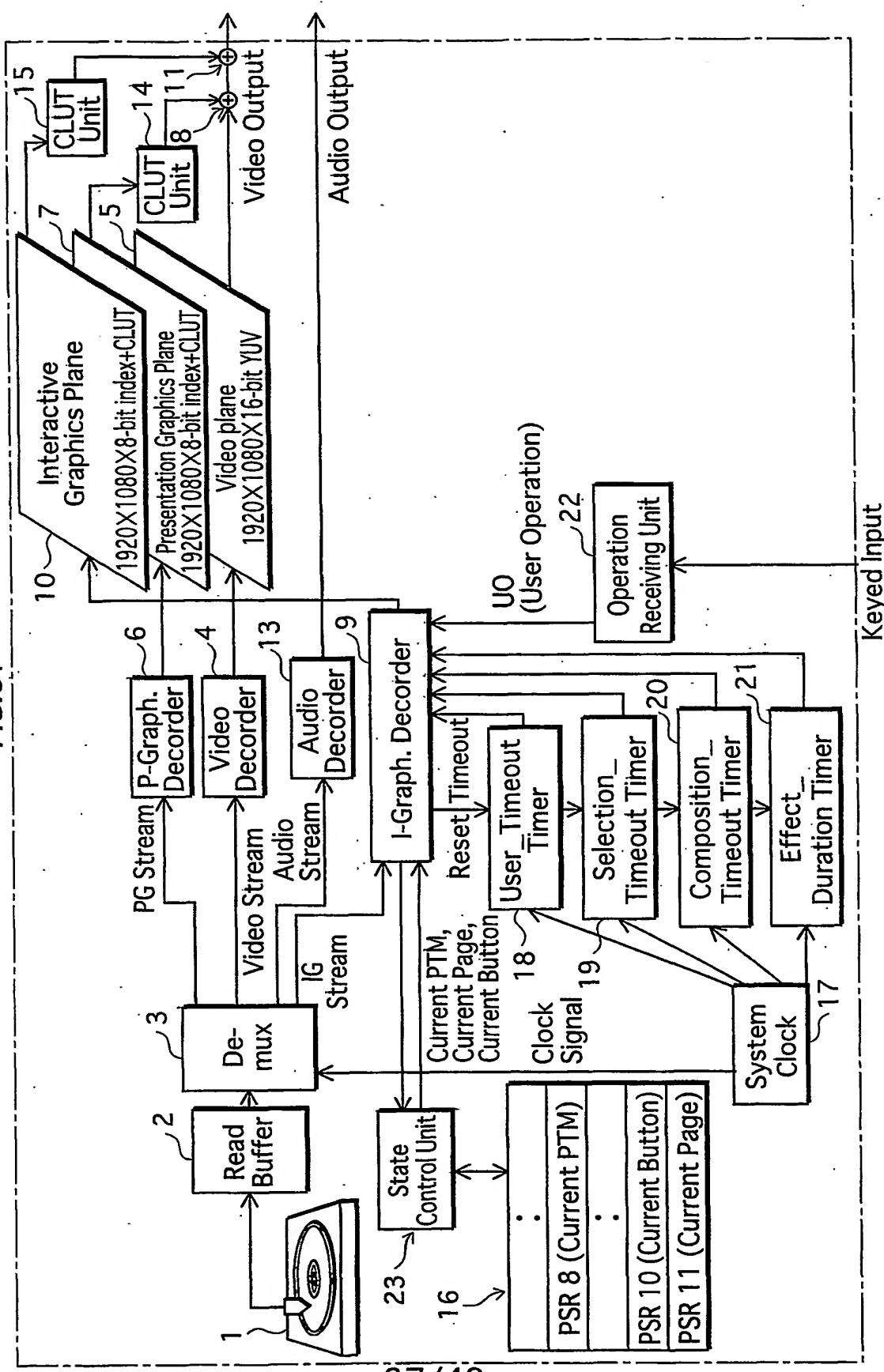


FIG.38A

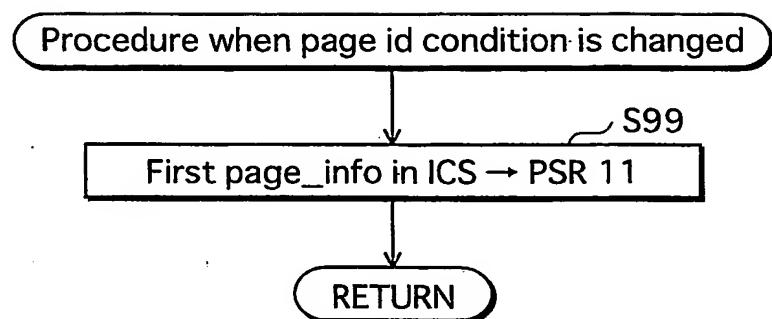


FIG.38B

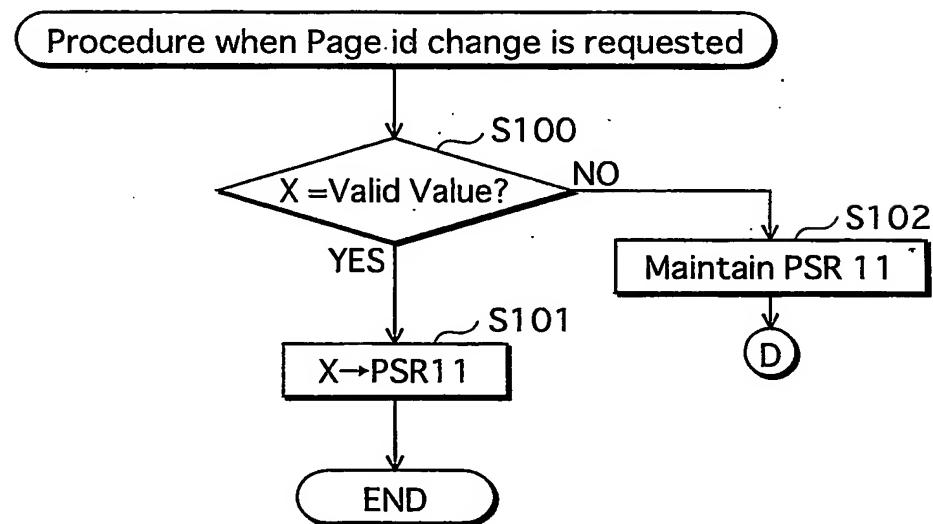


FIG.39A

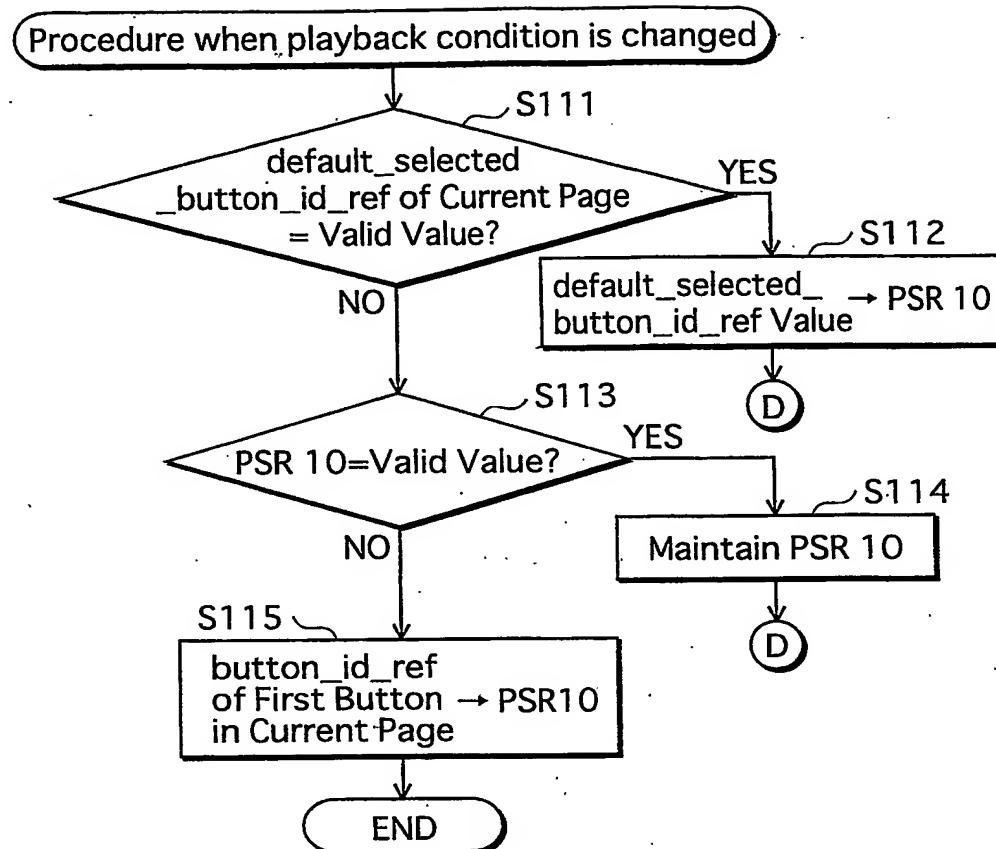


FIG.39B

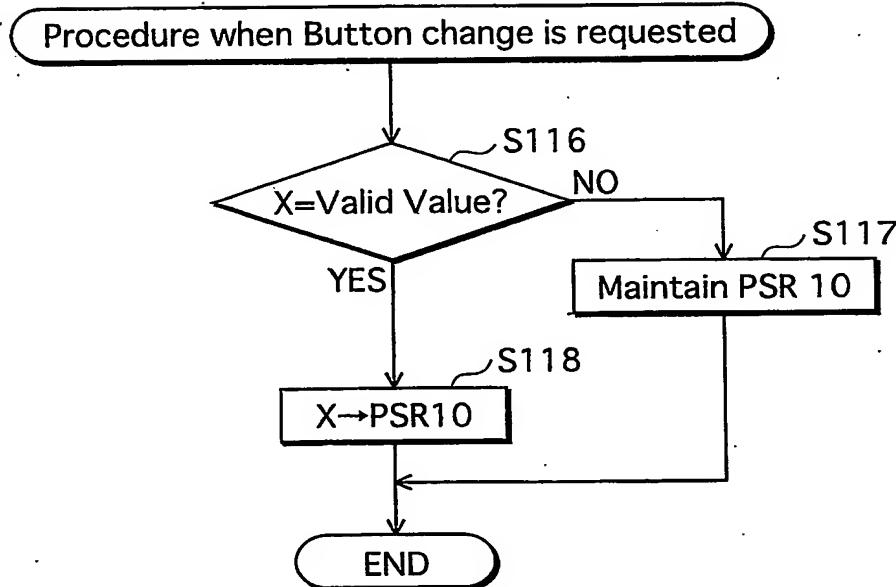
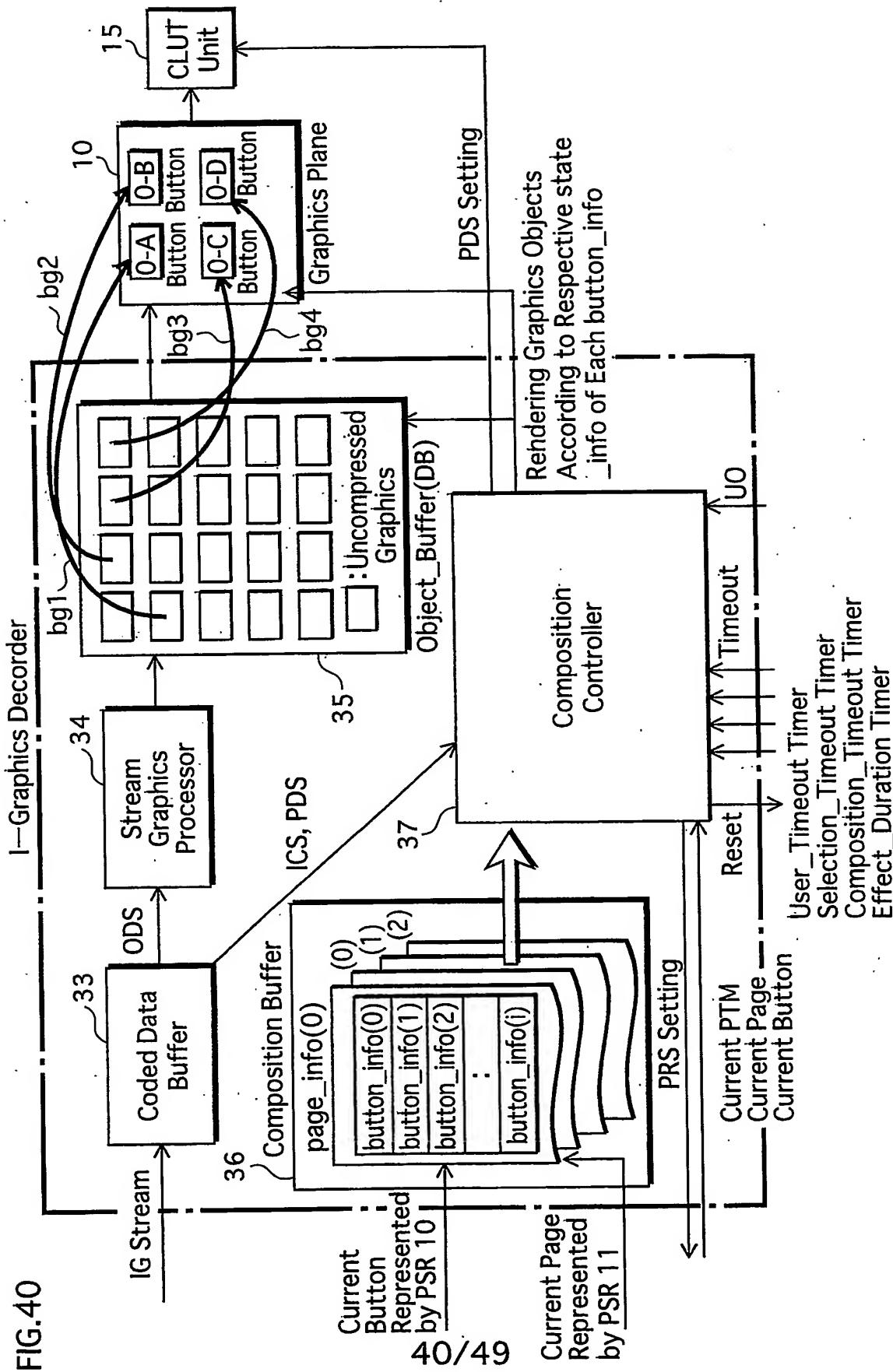


FIG.40



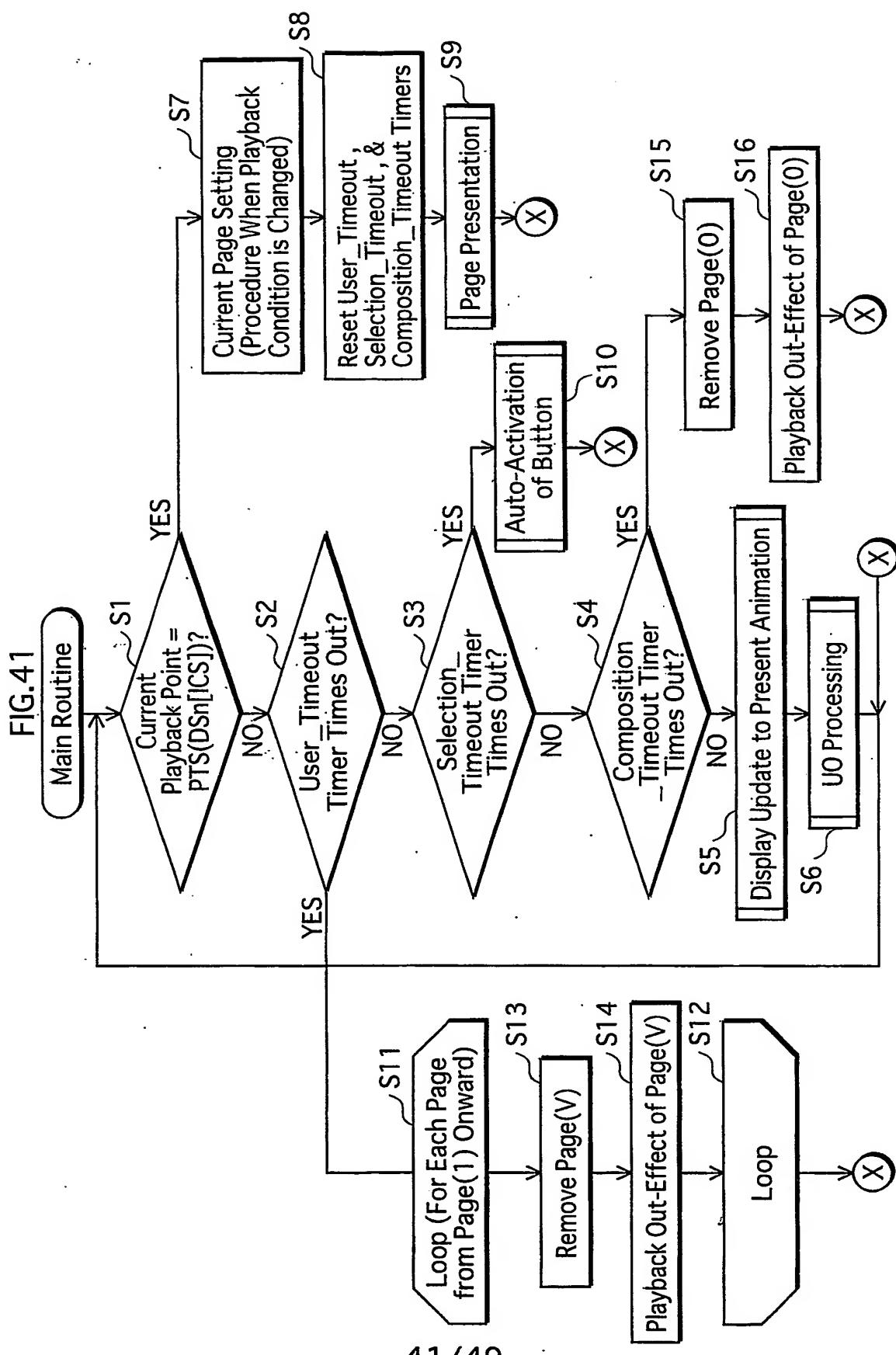


FIG.42

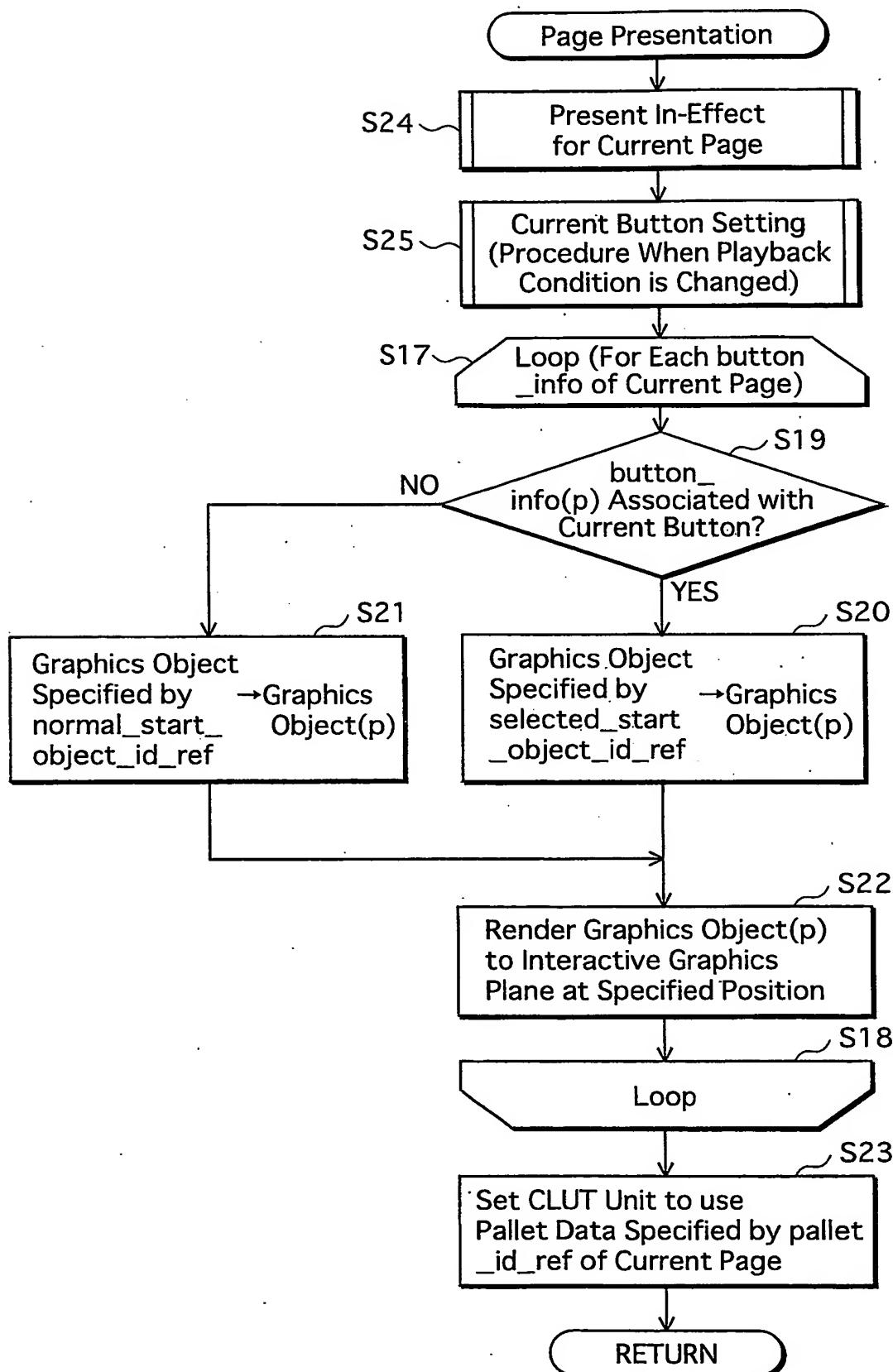


FIG.43

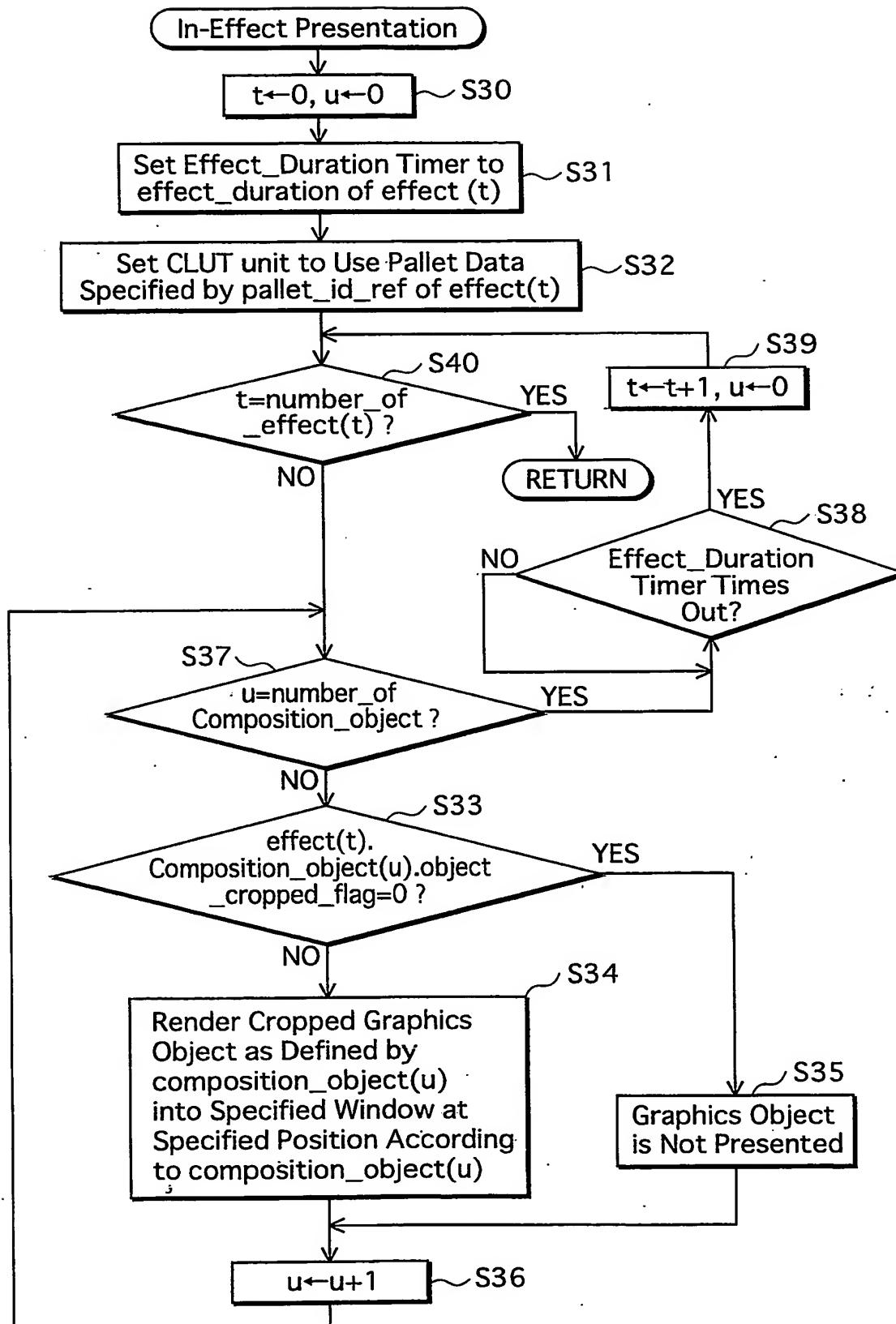


FIG.44

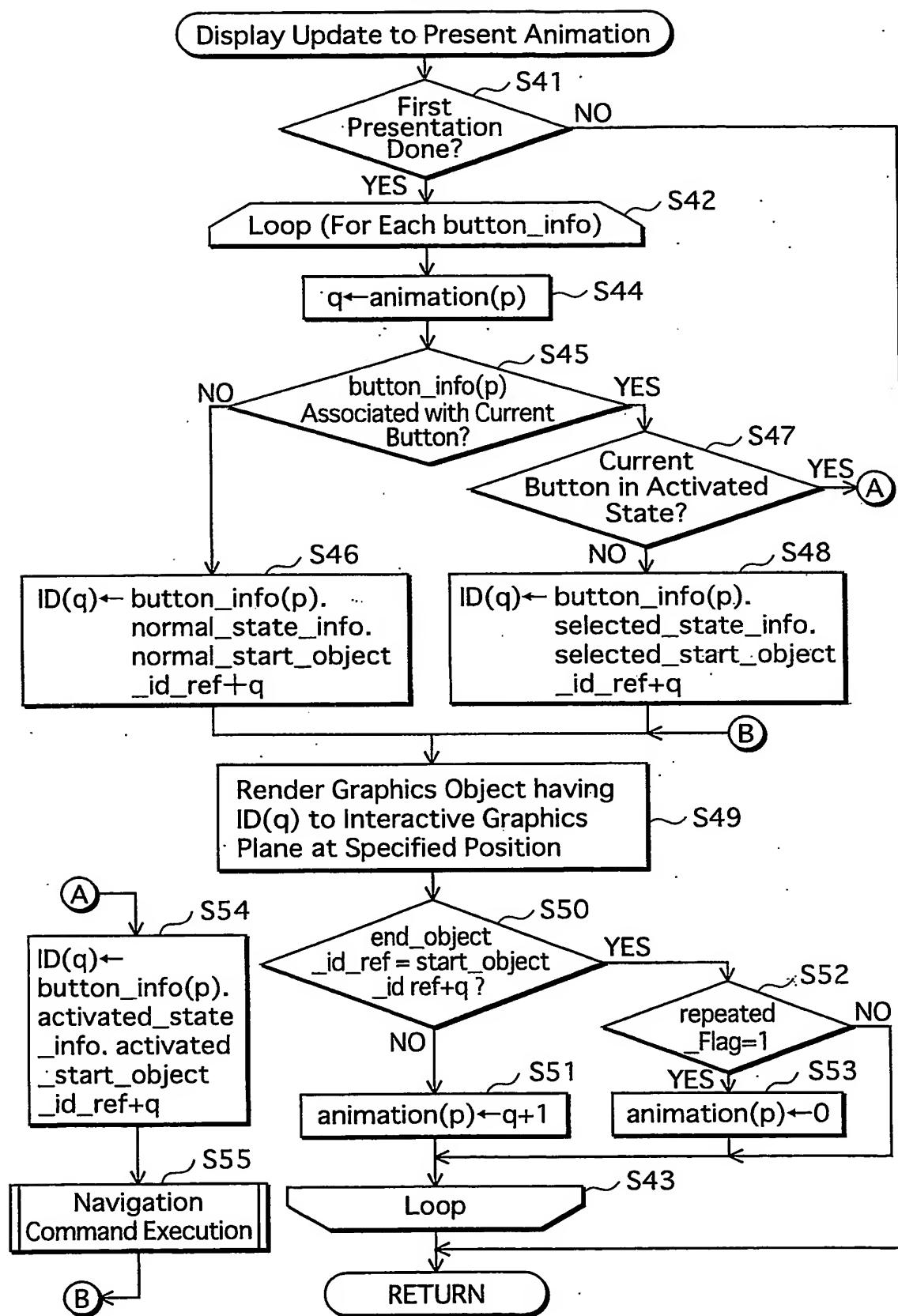


FIG.45

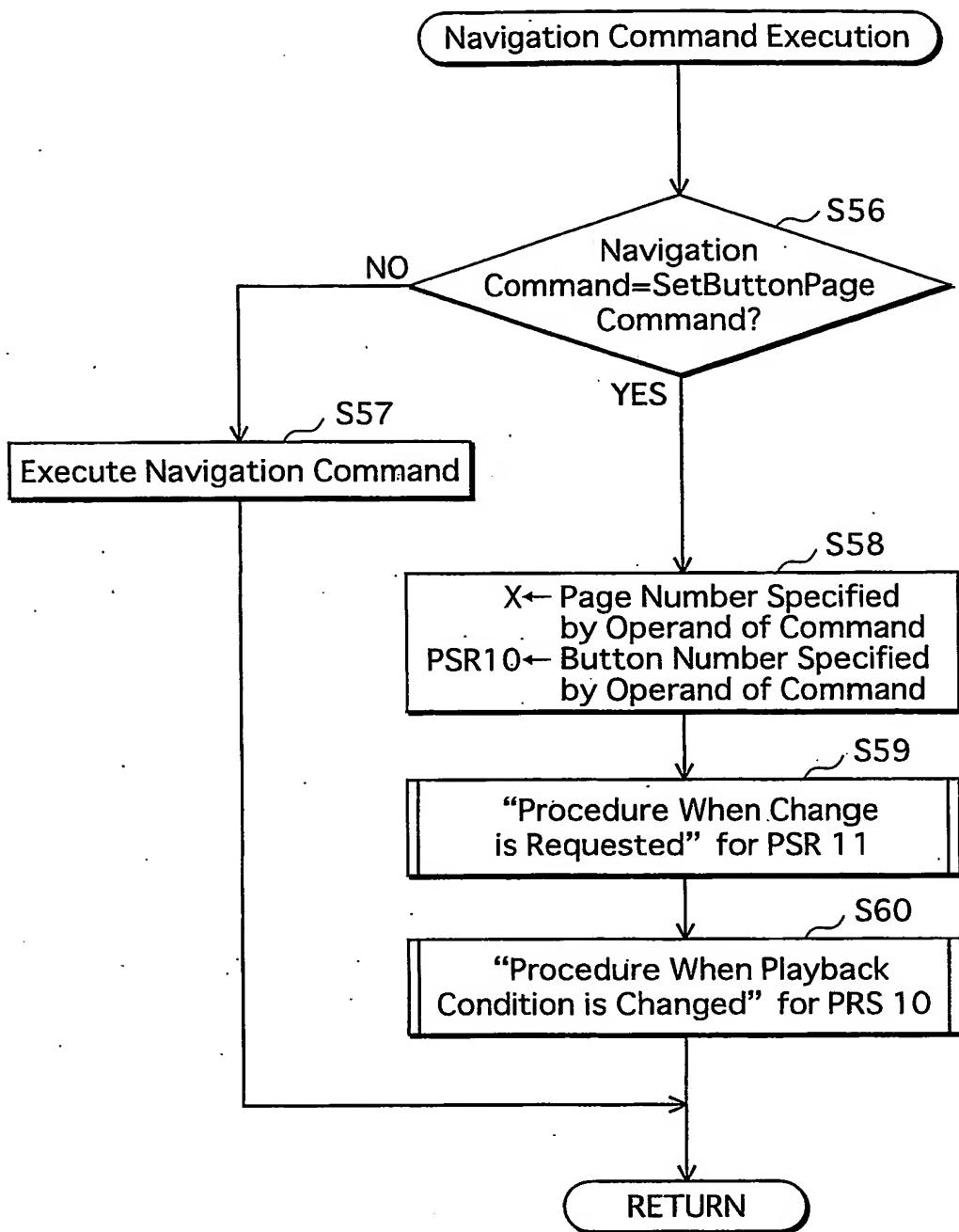


FIG.46

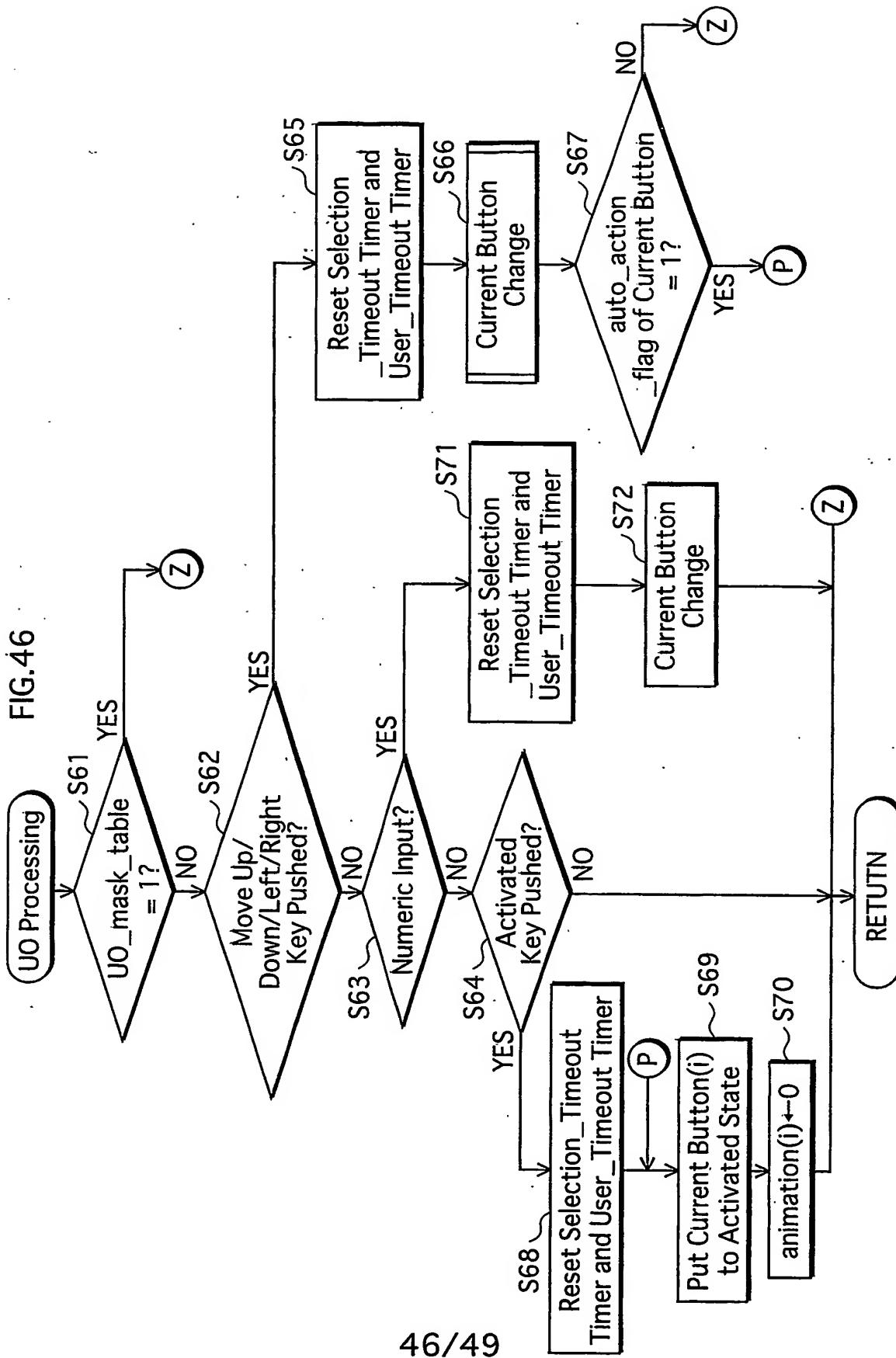


FIG.47

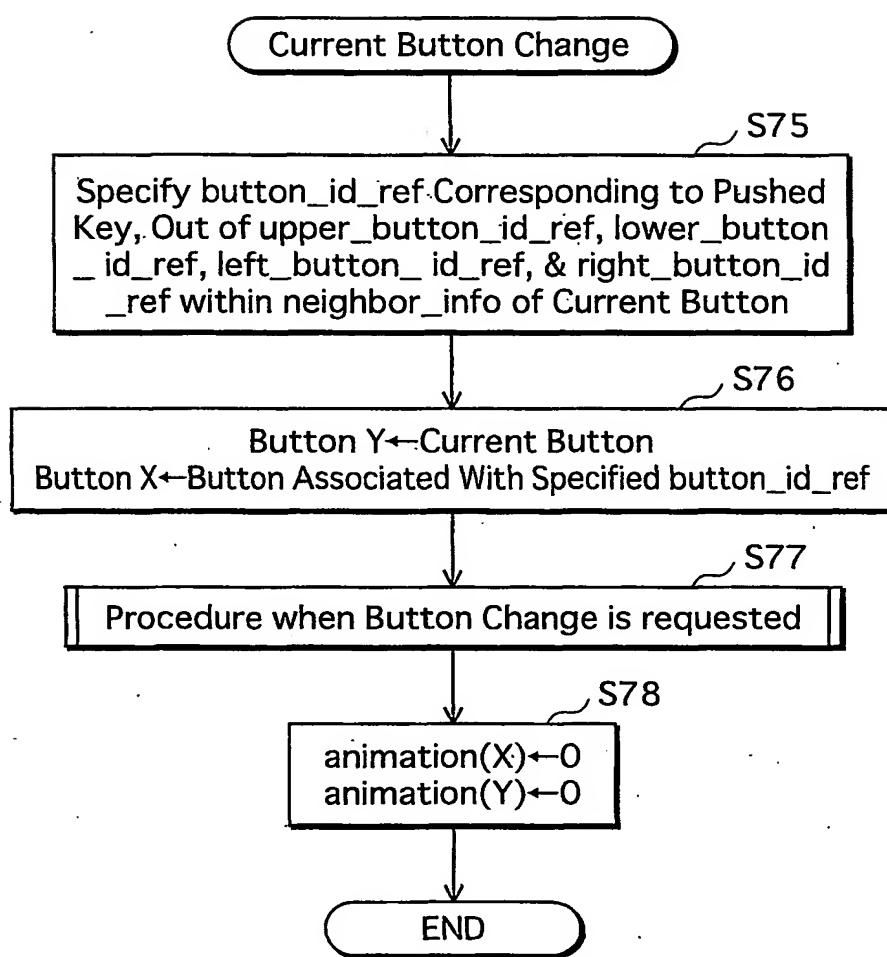


FIG.48

